

TEXAS

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STATE BOARD OF WATER ENGINEERS

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GREGG COUNTY, TEXAS

Records of wells, drillers' logs,
and water analyses, and map
showing location of wells.

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WORKS PROGRESS ADMINISTRATION

GROUND WATER SURVEY

PROJECT 2073

G. H. Shafer and H. M. Lyle
Project Superintendents

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Analyses made, map prepared, data
assembled, and report mimeographed by
WORKS PROGRESS ADMINISTRATION
PROJECT 6507-5112

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Sponsored by the State Board of Water Engineers with
the Bureau of Industrial Chemistry of the University
of Texas, the State Planning Board, and the U. S.
Geological Survey cooperating.

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Austin, Texas
Feb. 15, 1937

GREGG COUNTY, TEXAS

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Introduction

by

Samuel F. Turner

Associate Hydraulic Engineer

U. S. Geological Survey

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and put down test holes where additional information is needed.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells", sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of the University of Texas furnished laboratory space and equipment and supervised the chemical analyses.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Planning Board and the State Board of Water Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Gregg County was started on March 2, 1936, and completed on June 30, 1936. This project was Project 2073 of District 2 of the Works Progress Administration, Tyler, Texas. G. H. Shafer, a geologist, was project superintendent until May 15, 1936, when he resigned because of illness. H. M. Lyle, a geologist, took his place and finished the county. Both Mr. Shafer and Mr. Lyle deserve great credit for their work and for the many extra hours they spent on the project. The Tyler office of the Works Progress Administration made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendents, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the map in the back of the release.

The test wells were drilled by W. P. A. labor using a soil auger, drop auger, churn drill and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendents studied these samples and compiled the logs.

MAP OF GREGG COUNTY, TEXAS SHOWING LOCATIONS OF WATER WELLS LISTED

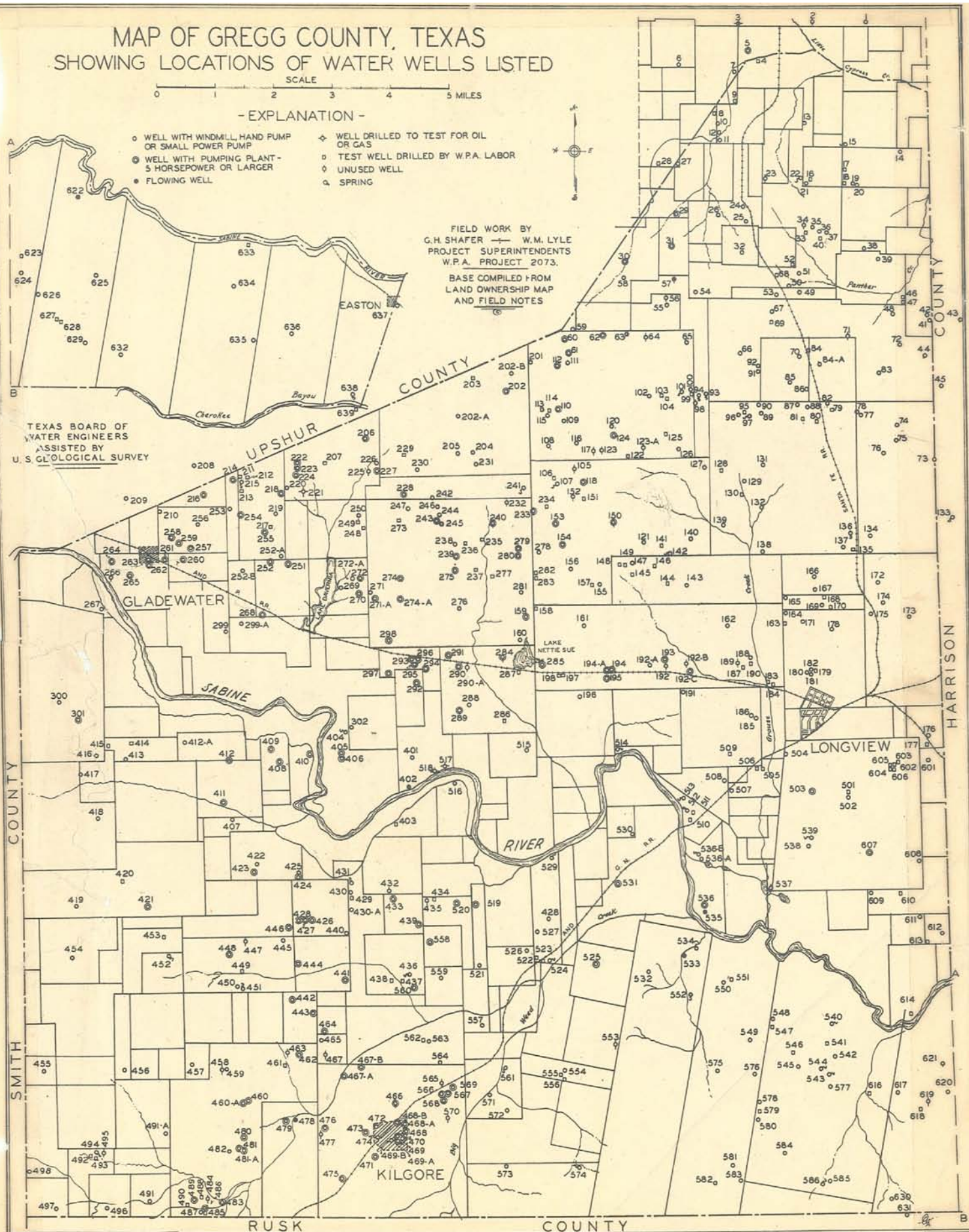
SCALE
0 1 2 3 4 5 MILES

- EXPLANATION -

- WELL WITH WINDMILL, HAND PUMP OR SMALL POWER PUMP
- WELL WITH PUMPING PLANT - 5 HORSEPOWER OR LARGER
- FLOWING WELL
- ◇ WELL DRILLED TO TEST FOR OIL OR GAS
- TEST WELL DRILLED BY W.P.A. LABOR
- ◇ UNUSED WELL
- △ SPRING

FIELD WORK BY
G.H. SHAFER — W.M. LYLE
PROJECT SUPERINTENDENTS
W.P.A. PROJECT 2073.
BASE COMPILED FROM
LAND OWNERSHIP MAP
AND FIELD NOTES

TEXAS BOARD OF
WATER ENGINEERS
ASSISTED BY
U. S. GEOLOGICAL SURVEY



Records of wells and springs in Gregg County, Texas
(See "Logs of T. P. A. Test Wells" for all records of test wells.)

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
1	11½ miles north	--	F. L. Feather	--	1923	42-d	36	3.0
2	do.	--	Mrs. H. M. Hall	--	--	58-d	--	3.5
3	do.	-- Smith	Lawrence #1	Shasta Oil Company	--	--	6½	0
5	10½ miles north	John Lout	H. G. Ray	Gulf Oil Co.	1932	600	6½	0
6	do.	B. Holloway	M. C. Bell	--	1894	30-d	36	7.0
7	10½ miles north	C. H. Cooper	H. G. Ray	--	1918	27-d	36	2.9
10	9½ miles north	W. P. Simpson	R. B. Porter	--	--	15-d	24	3.0
11	do.	do.	do.	--	--	32-d	40	5.0
13	do.	John Lout	L. L. Mackey	Obie Phillips	--	27-d	50	3.5
14	9 miles north	James Goodwin	Cla Stinson	--	--	27-d	40	3.0
15	do.	H. H. Hagegood	L. L. Mackey	--	--	Spring	--	--
f/ 19	8½ miles north	James H. Goodwin	Mrs. D. C. Chaffin	Richard Chaffin	1925	45-d	50	2.5
20	do.	do.	do.	Jack Chaffin	Old	60-d	48	2.5
21	do.	Wm. Wingate	W. H. Hunter	Pug Evers	1932	31-d	36	3.0
22	do.	John Lout	Dan Hunter	--	--	Spring	--	--
f/ 23	do.	Robt. Cartwright	Ruthie Brown	--	--	31-d	40	3.0
24	8 miles north	David Meredin	Tom Willis	Obie Phillips	1928	35-d	36	3.0
f/ 25	do.	do.	do.	Tom Willis	--	35-d	36	2.5
26	do.	do.	Mrs. E. F. McQueen	--	--	26-d	36	7.0
27	9 miles north	D. Reed	W. C. Mackey	W. Henson	1934	29-d	36	3.0
29	8½ miles north	Jas. McRae	M. & D. Bonner	--	1934	750	--	--
30	7½ miles north	Marshall Penn	Tidewater Oil Co.	Layne-Texas Co.	1931	812	6-5/8	--
f/ 31	do.	B. W. Whitche	J. C. Barrell	Rajo Oil Co.	1935	460	6-5/8	2.0
32	7½ miles north	James Price	Ardelia Sly	Richard Chaffin	1919	35-d	48	3.0

a/ All wells are bored or drilled unless dug well is indicated by d under "Depth."

b/ Measuring point was usually top of casing, top of pump base, or top of well curb.

c/ T, turbine; A, air-lift; GL, gas lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; Ng, natural gas; S, steam; W, windmill; H, hand; number indicates horsepower.

Records obtained by G. H. Shafer and W. M. Lyle, Project Superintendents
(Chemical analyses of water from these wells and springs are in the table of analyses.)

No.	Water Level		Pump Use		Remarks
	Depth	Date of	and	of	
	below	measure-	power	water	
	measur-	ment	c/	d/	
	ing point				
	(feet)				
1	44.0	June 2, 1936	B,H	D,S	Water is always low.
2	60.9	do.	B,H	N	Reported that 5 wells had been dug. All failed.
3	Flows	do.	None	N	Estimated flow: 3 gallons a minute from abandoned oil test.
5	60	e/	A,-,-	D	Reported production: 150 gallons a minute.
6	35.1	June 2, 1936	B,H	D,S	Wood curb; no casing.
7	27.5	do.	B,H	D,S	Wood curb; no casing. Water level reported same all year.
10	12.7	Mar. 5, 1936	B,H	D,C	Tile curb. Fails in droughts.
11	33.3	do.	B,H	D,S	Wood curb; no casing. Never fails.
13	22.1	Mar. 6, 1936	B,H	D,S	Wood curb; no casing. Fails in droughts.
14	20	Mar. 20, 1936	B,H	D,S	Wood curb; no casing. Never fails.
15	Flows	do.	None	S	Estimated flow: $\frac{1}{2}$ gallon a minute from sand. Temperature 60° F.
19	32.5	Mar. 3, 1936	B,H	D,S	Wood curb; no casing. Fails in droughts.
20	30.4	do.	B,H	D,S	Wood curb; no casing. Gas reported in well during digging.
21	29.5	Mar. 4, 1936	B,H	D,S	Wood curb; 5 feet brick casing at top. Never fails.
22	Flows	Mar. 20, 1936	None	S	Estimated flow: $\frac{1}{2}$ gallon a minute from 2 openings in sand. Temperature 62° F.
23	31.0	Mar. 12, 1936	B,H	N	Wood curb; no casing.
24	31.7	Mar. 9, 1936	B,H	D,S	Wood curb; 7 feet tile casing at bottom.
25	24.7	do.	B,H	D,S	Wood curb; 7 feet tile casing at bottom. Never fails.
26	29.7	Mar. 5, 1936	B,H	D	Wood curb; no casing.
27	30.6	June 2, 1936	B,H	D	Do.
29	--	--	C,G, 10	D,Cf	Estimated yield: 15 gallons a minute.
30	--	--	A,Ng, 90	Of	J. J. Flewellen lease. Reported unfit for drinking. See log.
31	134.9	June 15, 1936	None	N	Reported water sands at 300-330 and 430-460 feet.
32	31.4	Mar. 5, 1936	B,H	D,S	Wood curb; no casing. Never fails.

d/ I, irrigation; Ind, industrial; Of, oil field; P, public; D, domestic; S, stock;
N, not used.

e/ Water level reported.

f/ No water sample collected for analysis.

Records of wells and springs in Gregg County--Continued

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
f/ 34	7½ miles north	John Lout	J. M. Hamby	--	--	27-d	48	3.0
35	do.	do.	do.	--	1934	27	--	--
f/ 36	7½ miles north	do.	Sarah Dixon	C. Hunter	1932	27-d	36	3.0
37	do.	do.	do.	Rufus Haigler	Old	35-d	48	3.5
f/ 38	do.	M. D. Cain	Mrs. Nathan Stewart	Eli Woods	Old	27-d	48	2.0
39	do.	Henry Hathaway	Mrs. Ogie Hiatt	Obie Phillips	--	55-d	30	2.5
41	6½ miles north	E. Robertson	D. E. Hiatt	--	1892	34-d	36	3.0
42	do.	do.	do.	W. N. Hiatt	1921	38-d	36	2.5
43	do.	do.	J. Bussey	--	1910	21-d	36	2.7
44	5½ miles north	J. E. Dixon	Wiley Page	--	1935	35-d	60	1.0
45	5½ miles northeast	do.	A. J. Page	--	1871	27-d	36	2.7
48	5½ miles north	do.	Mrs. Sam Page	--	--	33-d	48	3.0
49	6½ miles north	W. H. Hart	N. W. Bussey	--	--	45-d	36	2.5
50	do.	John Lout	W. A. Jones	--	--	22-d	48	2.0
51	7 miles north	do.	Seth Jones	--	--	32-d	48	3.0
53	6½ miles north	Isaac Moody	E. L. Whitehurst	Henry Smith	--	30-d	30	3.0
54	do.	John Lout	J. C. Hamby	J. C. Hamby	1901	41-d	44	4.0
55	do.	M. Alexander	E. E. Stone	-- Smith	1916	30-d	36	2.0
f/ 56	7 miles north	H. Kirk	do.	--	1936	800	4	--
f/ 57	do.	M. Alexander	do.	--	1933	800	6½	--
58	7½ miles northwest	Marsh Mann	J. J. Flewellen	--	1933	36-d	36	--
59	do.	do.	Maude Smith	R. M. Smith	1897	29-d	36	3.0
60	7 miles northwest	Dolores Sanchez	G. F. Meadows	L. W. Little	1930	732	6-5/8	--
61	do.	do.	Barnsdall Oil Co.	--	--	--	--	--
62	do.	do.	G. W. Willingham	Layne-Texas Co.	1931	390	10	0
63	6½ miles northwest	do.	J. L. Reppond	--	1902	41-d	36	3.0

G. H. Shafer and W. M. Lyle, Project Superintendents

No.	Water Level		Pump Use		Remarks
	Depth below measuring point	Date of measurement	and of power c/	of water d/	
	(feet)				
34	25.8	Mar. 4, 1936	B,F	N	Wood curb; no casing.
35	--	--	C,H	D	Steel casing, perforated at bottom. Nearly fails in drought.
36	24.7	Mar. 6, 1936	B,H	D,S	Wood curb; no casing. Never fails.
37	34.7	do.	B,H	D,S	Do.
38	22.9	do.	B,H	D,S	Do.
39	37.4	do.	C,G, $\frac{1}{2}$	D,S	Tile curb and casing. Never fails.
41	33.0	June 17, 1936	B,H	D,S	Wood curb; no casing. Never fails.
42	36.5	do.	B,H	D	Do.
43	20.5	do.	B,H	D	Do.
44	35.5	do.	B,H	D,S	Wood curb; 4 joints concrete at bottom.
45	24.8	do.	B,H	D,S	Wood curb; no casing. Water level lowers in summer.
48	21.8	Mar. 18, 1936	B,H	D	Wood curb; no casing. Had to dig deeper for larger supply.
49	32.9	Mar. 2, 1936	B,H	D,S	Wood curb; no casing. Never fails.
50	19.5	Mar. 4, 1936	B,H	D	Do.
51	31.1	do.	B,H	D,S	Wood curb; no casing. Fails in drought.
53	22.0	Mar. 2, 1936	B,H	D,S	Wood curb; tile casing. Never fails.
54	40.9	May 25, 1936	B,H	D,S	Wood curb. Never fails.
55	24.3	June 15, 1936	B,H	D,S	Wood curb; concrete tile casing. Water level lowers little in summer.
56	--	--	None	N	Reported water flowed 50 feet into derrick until shut off.
57	--	--	None	N	Reported artesian flow.
58	--	--	B,H	D,S	Wood curb; no casing. Never fails.
59	23.8	June 15, 1936	B,H	D	Do.
60	--	--	A,G, 25	D,Of	Standard Oil Company water well. Furnished water to drill 12 oil wells. See log.
61	--	--	C,G,6	D,Of	Pumped about 3 hours daily.
62	105	June, 1931 e/	T,E, 30	D,Of	Estimated yield: 100 gallons a minute, Mar. 19, 1936. Temperature, 70° F. Supplies Humble Oil Co. camp. See log.
63	37.0	June 15, 1936	B,H	D,S	Wood curb; no casing. Never fails.

Records of wells and springs in Gregg County--Continued

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
64	6 $\frac{1}{2}$ miles northwest	Dolores Sanches	W. L. Fuller	R. F. Haines	1936	29-d	40	--
65	6 miles north	do.	Mrs. A. C. McAfee	Luther Alexander	--	21-d	30	4.0
66	5 $\frac{1}{2}$ miles north	J. F. Dixon	L. L. Mackey	--	--	--	36	--
67	6 $\frac{1}{2}$ miles north	do.	C. R. Parker	--	--	22-d	36	2.3
70	5 $\frac{1}{2}$ miles north	Dan'l Benton	L. L. Hamby	--	--	27-d	30	3.0
71	do.	J. F. Dixon	Sam Page	--	1911	25-d	36	2.8
f/ 72	do.	do.	C. T. Henderson	Verner Brown	1930	14-d	40	3.0
73	4 $\frac{1}{4}$ miles northeast	David Hill	I. Killingsworth	--	--	38-d	36	2.5
74	4 $\frac{1}{2}$ miles north	do.	Charlie Henderson	--	--	33-d	40	3.0
f/ 75	4 $\frac{1}{2}$ miles north	do.	J. L. Morrow	--	Old	32-d	40	2.0
76	4 miles north	do.	T. E. Killingsworth	T. E. Killingsworth	1914	28-d	30	--
77	4 $\frac{1}{2}$ miles north	do.	R. J. Mackey	J. C. Boling	Old	29-d	30	3.5
78	do.	do.	Mrs. R. J. Mackey	do.	1932	200	--	--
82	4 $\frac{3}{4}$ miles north	P. P. Rains	L. L. Mackey	Jess Ingram	--	12-d	48	2.0
83	5 $\frac{1}{2}$ miles north	J. F. Dixon	R. D. Adrian	--	--	---d	36	--
84a	do.	R. F. Crane	Judson Grove School	--	1925	394	--	--
85	5 miles north	Dan'l Benton	Claude Mackey	Will Ingram	1935	32-d	36	0.5
87	4 $\frac{3}{4}$ miles north	P. P. Rains	H. G. Precise	--	--	40-d	40	2.5
88	4 $\frac{1}{2}$ miles north	do.	G. G. Mackey	--	--	25-d	36	3.5
f/ 89	do.	do.	Mrs. J. R. Melton	--	Old	30-d	40	3.5
f/ 90	4 $\frac{1}{2}$ miles north	do.	R. R. Pliler	--	Old	33-d	48	3.0
f/ 91	5 $\frac{1}{2}$ miles north	J. F. Dixon	L. L. Mackey	J. C. Boling	--	24-d	30	2.5
92	do.	do.	do.	do.	--	23-d	60	3.5
93	do.	Wm. Engle	R. R. Pliler	--	--	Spring	--	--
94	do.	do.	do.	--	--	do.	--	--
96	4 $\frac{3}{4}$ miles north	P. P. Rains	J. R. Melton	--	1934	30-d	36	3.0
97	4 $\frac{1}{2}$ miles north	do.	do.	--	--	Spring	--	--

G. E. Shafer and W. M. Lyle, Project Superintendents

No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment			
64	--	--	None	N	Well being dug. Log; yellow clay and sand, 1-16; chocolate shale, 16-21; shale and sand, 21-24; white water sand, 24-29 feet.
65	20.7	Mar. 18, 1936	B,H	D	Wood curb; tile casing. Nearly fails in drought.
66	--	--	B,H	D	Wood curb; no casing. Nearly fails in summer.
67	21.9	June 16, 1936	B,H	D	Wood curb; no casing. Fails in summer.
70	24.8	Mar. 2, 1936	B,H	D	Wood curb; tile casing. Never fails.
71	19.6	June 16, 1936	None	N	Wood curb; no casing. Never fails.
72	11.4	June 18, 1936	B,H	D,S	Wood curb; no casing. Fails in drought.
73	27.8	June 17, 1936	B,H	D,S	Wood curb; no casing. Never fails.
74	31.9	Mar. 20, 1936	B,H	D,S	Wood curb; 7 feet log casing; open hole. Never fails.
75	27.6	Mar. 18, 1936	B,H	D,S	Wood curb; no casing. Never fails. Water from black sand.
76	--	--	C,H	D,S	Wood curb; sealed over. Never fails.
77	29.3	Feb. 25, 1936	B,H	D,S	Wood curb; tile casing. Fails in drought.
78	--	--	C,E, $\frac{1}{2}$	D,S	Large supply. Supplies dairy. Drilled through sour water strata.
82	12.0	Mar. 3, 1936	None	N	Partially caved.
83	--	--	B,E	D	
84a	--	--	C,E	P	See log.
85	33.1	Mar. 5, 1936	B,H	D,S	Brick curb and casing to 22 feet; open hole to bottom.
87	18.8	Mar. 3, 1936	B,H	D	Galvanized iron curb; no casing. Never fails.
88	14.5	do.	B,H	D	Wood curb; no casing.
89	20.6	Mar. 9, 1936	B,H	D	Wood curb; no casing. Never fails.
90	24.3	June 17, 1936	C,G, $1\frac{1}{2}$	D,S	Do.
91	23.5	Feb. 25, 1936	C,E, $1/3$	D,S	Tile curb and casing to 6 feet; no casing below. Never fails.
92	23.5	do.	B,H	D,S	Concrete casing to 6 feet; no casing below. Water from very fine sand.
93	Flows	Mar. 17, 1936	None	D,S	Water from fine white sand. Never fails.
94	Flows	do.	None	D,S	"Brickyard Spring." Estimated flow: 1 gallon a minute from wood barrel set in fine white sand.
96	25.9	June 16, 1936	B,H	D,S	Wood curb; no casing. Water from white sand. Never fails.
97	Flows	Mar. 16, 1936	None	S	Flows out of sandstone and clay.

Records of wells and springs in Gregg County--Continued

No.	Distance from Loc. view	Survey	Owner	Driller	Date com- pleted	Depth of well (ft.)	Diam- eter of well (in.)	Height of measuring point above ground (ft.)
f/ 98	5 miles north	Wm. Engle	R. R. Flier	--	--	15-d	50	3.0
99	do.	Dolores Sanches	J. B. Lewis	Mark Harley	1922	30-d	36	7.0
101	do.	do.	do.	--	--	Spring	--	--
102	5½ miles northwest	do.	J. E. Stone	--	1933	41-d	36	2.8
f/105	do.	Wm. Robinson	Stanolind Oil Co.	--	1931	810	7¼	--
107	do.	do.	R. S. McKinley	--	--	Spring	--	--
108	6 miles northwest	Dolores Sanches	Mrs. C. V. Daniel	--	1936	34-d	40	2.5
109	do.	do.	R. Bowles Oil Co.	S. B. Smith	1934	25-d	40	--
110	do.	do.	Sun Oil Co.	McMasters & Pomeroy	1931	837	8½	--
111	6½ miles north	do.	R. R. Collins	--	--	29-d	36	2.6
112	7 miles northwest	do.	Magnolia Petroleum Co.	Layne-Texas Co.	1931	811	8½	--
115	6¼ miles northwest	do.	W. C. Turnbow	Elmer Woodall	1933	21-d	48	2.5
116	5½ miles northwest	do.	Herman Fenton	--	1935	31-d	36	3.7
f/117	5¼ miles northwest	do.	Mrs. J. R. Fenton	Bond & Johnson	1931	800	6½	1.8
118	do.	Wm. Robinson	Stanolind Oil Co.	L. W. Harri- son & M. Parker	1934	410	8½	--
120	5½ miles northwest	Dolores Sanches	G. A. Castle- berry	Emery Jones	1935	18-d	36	2.3
121	3 miles northwest	Wm. Robinson	Jim Tolar	Mose Horton	--	25-d	40	5.0
123	5¼ miles northwest	Dolores Sanches	Mrs. J. R. Fenton	J. B. Bond	--	800	6½	--
f/123a	4½ miles northwest	do.	Mid-Kansas Oil Co.	Tidal Oil Co.	1931	250	8½	--
f/124	5¼ miles northwest	do.	C. C. Clemens	-- Manahan	1930	650	5½	--
126	4½ miles northwest	do.	W. D. North- cutt Est.	E. Melton	1930	28-d	36	3.0
127	4 miles northwest	Wm. Robinson	J. R. Meadows	--	1906	30-d	36	2.9
129	3½ miles north	P. P. Rains	Mrs. Georgia McGredo	--	--	34-d	40	3.0
f/131	3½ miles north	do.	do.	--	--	28-d	40	7.0
132	3 miles north	do.	Minnie Thrasher	--	1881	26-d	36	2.1
133	3½ miles northeast	David Hill	R. H. Still	--	--	Spring	--	--

G. H. Shafer and W. M. Lyle, Project Superintendents

No.	Water Level		Pump Use		Remarks
	Depth below measur- ing point (feet)	Date of measure- ment	and power c/	of water d/	
98	12.5	Mar. 17, 1936	B,H	N	Wood curb; no casing.
99	28.8	do.	B,H	D,S	Wood curb; no casing. Never fails.
101	Flows	Mar. 24, 1936	None	S	Numerous seeps from fine white sand. Never fails.
102	41.0	June 16, 1936	B,H	D	Wood curb; no casing.
105	Below 200	Apr. 4, 1936	None	N	J. E. McKinley lease. 7 1/2 inch casing; slotted at 236-403, 429-565, and 699-799 feet.
107	Flows	Apr. 8, 1936	None	S	Estimated flow: 5 gallons a minute from one opening in sand.
108	33.9	Apr. 9, 1936	B,H	D	Wood curb; no casing.
109	24.8	Mar. 26, 1936	B,H	D	Do.
110	--	--	A,Ng, 100	Of	J. C. McKinley lease. Has furnished water to drill about 100 oil wells. See log.
111	29.5	June 12, 1936	B,H	D	Wood curb; no casing.
112	--	--	A,Ng, 90	Of	T. E. Jones lease. Reported forms scale in boilers. See log. Pumped almost continuously since 1931.
115	22.6	Mar. 25, 1936	B,H	D	Wood curb; no casing. Never fails.
116	30.2	June 12, 1936	B,H	D,S	Concrete curb; wood casing. Never fails.
117	142.0	June 16, 1936	--	N	Steel curb; reported unfit for boilers.
118	--	--	A,S,-	Of	Used chiefly for drilling. S. M. McKinley lease. Well drilled for Yount-Lee Oil Co. See log.
120	16.9	June 12, 1936	B,H	D,S	Wood curb; no casing.
121	28.4	Mar. 26, 1936	B,H	D	Wood curb; 4 feet cement casing at top. Never fails.
123	146.9	June 16, 1936	--	N	
123a	--	--	None	N	J. J. Castleberry lease. Water well by oil well No. 1. See log.
124	--	--	C,G, 10	Of	Furnished water for drilling 4 wells. See log. Has not been used for 1 year.
126	29.9	June 12, 1936	B,H	D	Wood curb; no casing. Never fails.
127	18.3	do.	B,H	D	Wood curb; no casing. Nearly fails in summer.
129	17.3	Mar. 9, 1936	B,H	D,S	Wood curb; no casing. Reported unfit for washing.
131	31.7	do.	C,E, 1/6	D	Wood curb; no casing. Fails in drought.
132	24.3	June 23, 1936	B,H	D	Wood curb; water level constant.
133	Flows	June 9, 1936	None	D,S	Flows 10 gallons a minute from sandstone. Never fails.

Records of wells and springs in Gregg County--Continued

No.	Distance from Longview	Survey	Owner	Driller	Date com- ple- ted	Depth of well (ft.) a/	Diam- eter of well (in.) b/	Height of measuring point a- bove gro- und(ft.)b/
134	2 $\frac{1}{2}$ miles north	David Hill	Charley Henderson	--	--	25-d	50	0.3
136	do.	John Jackson	E. A. Finch	--	--	Spring	--	--
137	do.	P. P. Rains	John Finch	--	--	35-d	48	3.5
138	2 $\frac{1}{4}$ miles north	do.	S. R. Thrasher	--	1934	21-d	36	2.9
139	3 miles northwest	do.	do.	--	1936	21-d	36	2.0
140	3 $\frac{1}{4}$ miles northwest	Wm. Robinson	Geo. Ward	--	1895	31-d	36	2.5
142	do.	do.	Mrs. W. H. Tolar	--	--	Spring	--	--
143	2 $\frac{1}{4}$ miles northwest	David Fergus- on	W. H. Cocke	W. H. Cocke	1914	27-d	--	2.6
147	3 $\frac{3}{4}$ miles northwest	do.	E. F. Real	Gene Buckingham	1916	26-d	48	2.8
f/150	4 $\frac{1}{4}$ miles northwest	Wm. Robinson	Arkansas Fuel Oil Co.	H. P. Rives & Chas. Stout	1932	501	6 $\frac{1}{4}$	--
f/152	5 miles northwest	do.	do.	J.E. Browning & A. Benefield	1934	772	6 $\frac{1}{4}$	--
153	do.	do.	do.	--	1934	372	8 $\frac{1}{4}$	--
f/154	4 $\frac{1}{2}$ miles northwest	do.	Stanolind Oil Co.	W. P. Bracken	1931	177	7-5/8	1.5
155	4 miles northwest	do.	Pine Tree School	Howard Reel	1932	27-d	--	0.8
156	4 $\frac{1}{2}$ miles northwest	do.	S. G. & Maude Smith	--	--	27-d	36	3.2
159	5 miles west	Wm. Castle- berry	T. B. Harris	Woodley Petr. Co.	1933	245	6 $\frac{1}{4}$	--
160	do.	do.	do.	American Liberty	1936	13-d	36	0.0
161	4 miles west	Isaac Skillern	S. G. Smith	-- Corkin	1932	220	--	--
162	1 $\frac{1}{2}$ miles northwest	do.	W. J. Guy	--	--	26-d	36	2.5
f/164	1 $\frac{1}{2}$ miles northwest	Hamilton McNutt	C. F. Miles	--	--	17-d	42	6.0
165	1 $\frac{1}{2}$ miles north	J. W. Yates	Mrs. C. F. Miles	--	--	31-d	48	3.0
166	1 $\frac{1}{4}$ miles north	John Jackson	Mrs. Ralph Evans	--	--	17-d	30	5.0
167	1 $\frac{1}{2}$ miles north	do.	Mrs. Lonnie Smith	--	1933	16-d	48	3.0
f/169	1 $\frac{1}{4}$ miles north	J. W. Yates	R. H. Still	Pearl Whittaker	1935	20-d	50	2.0
171	1 mile north	Hamilton McNutt	Mrs. C. F. Miles	--	--	31-d	48	0.5
172	2 miles northeast	Alexander Jordan	C. A. Meadows	Henry Alford	1921	25-d	40	2.0

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No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment			
134	19.1	Mar. 10, 1936	C,G,-	D	Wood curb; no casing. Never fails.
136	Flows	Mar. 19, 1936	None	S	Flows $1\frac{1}{2}$ gallons a minute from sand.
137	19.9	Mar. 16, 1936	B,H	D,S	Wood curb; no casing. Never fails.
138	24.1	June 23, 1936	B,H	D,S	Wood curb; no casing. Nearly fails in summer.
139	19.2	do.	B,H	D,S	Do.
140	30.9	do.	B,H	D,S	Wood curb; no casing. Never fails.
142	Flows	Mar. 26, 1936	None	S	Flows $\frac{1}{2}$ gallon a minute from sand. Never fails.
143	22.6	June 12, 1936	B,H	D,S	Wood curb; no casing. Never fails.
147	23.1	June 23, 1936	B,H	D,S	Do.
150	--	--	A,Ng, 25	N	P. D. Harrison lease. See log. Used to supply water for oil well drilling a short time after completion.
152	--	--	--	N	Temporarily abandoned. Water foams in boilers. F. K. Lathrop lease. See log.
153	--	--	A,S, 45	Of	Produces $\frac{1}{2}$ to 1 barrel a minute. Does not corrode boilers. F. K. Lathrop lease. See log.
154	66.9	Apr. 8, 1936	T,E,-	Of	106 feet 7-5/8 casing. Bottom 70 feet, slotted screen with back pressure valve. Temporarily abandoned.
155	14.5	June 22, 1936	C,E, $1\frac{1}{2}$	P	Concrete curb; concrete casing, top to bottom. On T. W. Lee farm.
156	23.7	June 19, 1936	B,H	D	Box curb; no casing. Never fails.
159	175.6	do.	C,-,-	D	Steel curb; steel casing. Supplies 500 barrels a month for lease uses.
160	10.8	do.	C,E, $\frac{1}{4}$	D	No casing. Pumps 5 gallons a minute.
161	160.0	Mar. 30, 1936	C,E,1 e/	D	Static level reported 85 feet in 1932. Now stands at 160 feet. Maude Smith tract. Pump first set at 129 feet, now at 208 feet.
162	14.7	June 12, 1936	B,H	D	Wood curb; no casing.
164	15.6	Mar. 23, 1936	B,H	D	Wood curb; 17 feet brick casing at top. Never fails.
165	26.9	Mar. 13, 1936	B,H	D	Wood curb; no casing. Never fails.
166	14.4	Mar. 9, 1936	C,E, $\frac{1}{4}$	D	Wood curb; 3 $\frac{1}{2}$ feet brick casing at top. Never fails.
167	12.1	Mar. 10, 1936	C,E, $\frac{1}{2}$	D	Stone curb; no casing. Never fails.
169	15.6	Mar. 13, 1936	C,E, $\frac{1}{3}$	D,S	Wood curb; no casing. Never fails.
171	15.3	Mar. 19, 1936	C,W	D,S	Wood curb; no casing.
172	23.6	Mar. 13, 1936	B,H	D,S	Wood curb; 12 feet brick casing at top. Never fails.

Records of wells and springs in Gregg County--Continued

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
173	2 miles east	Alexander Jordan	-- Holland	--	1934	26-d	--	3.
174	1 $\frac{1}{2}$ miles northeast	do.	Mrs. V. H. Musselwhite	V. H. Musselwhite	1933	22-d	--	2.5
175	1 $\frac{1}{2}$ miles northeast	do.	Mrs. J. T. Hughey	--	--	35-d	48	2.
f/176	2 $\frac{1}{2}$ miles southeast	H. W. Norvell	J. T. Johnson	E. D. Latham	--	19-d	--	2.5
178	$\frac{1}{2}$ mile northeast	Hamilton McNutt	Dr. Hurst	--	1932	348	--	--
180	1,000' N Court Hse.	do.	Margie Capps	--	1892	75-d	36	3.0
181	do.	do.	do.	--	1896	67-d	36	3.0
182	do.	do.	do.	--	1897	74-d	36	3.0
185	1 $\frac{1}{4}$ miles southwest	Marshall Mann	A. L. Bruton	--	--	28-d	36	0.7
186	do.	do.	do.	--	--	30-d	--	4.0
188	1 mile west	Isaac C. Skillern	M. J. Trotter	M. J. Trotter	1930	19-d	48	0
189	1 $\frac{1}{4}$ miles west	do.	do.	E. W. Peck	1931	228	6-5/8	1.0
191	2 $\frac{1}{4}$ miles west	Marshall Mann	Edwin Lacy	-- Malone	1916	35-d	--	2.9
192	2 $\frac{3}{8}$ miles west	Isaac C. Skillern	Oil Well Supply Co.	--	1931	192	--	2.5
192a	2 $\frac{1}{2}$ miles west	do.	Magnolia Pipe Line Co.	L. T. Little	--	801	11-7/8	--
192b	2 $\frac{1}{4}$ miles west	do.	Guy McKay	--	1931	470	6 $\frac{1}{2}$	--
192c	2 miles west	do.	Drane Tank Co.	--	--	38-d	18-	0
193	2 $\frac{3}{8}$ miles west	Isaac C. Skillern	E. Rodden	-- Corkin	1931	290	--	0
194	3 $\frac{1}{2}$ miles west	do.	Stanolind Oil Co.	L. T. Little	1931	635	8 $\frac{1}{4}$	--
194a	do.	do.	Stanolind Pipe Line Co.	Layne-Texas Co.	--	332	6 $\frac{1}{2}$	--
195	do.	do.	Premier Refining Co.	Premier Refining Co.	1933	292	6 $\frac{1}{2}$	--
196	4 miles west	Jacob LaGrone	W. N. Stephens Est.	Calvin Moore	1908	34-d	36	5.0

a/ All wells are bored or drilled unless dug well is indicated by d under "Depth."

b/ Measuring point was usually top of casing, top of pump base, or top of well curb.

c/ T, turbine; A, air-lift; Gl, gas lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; Ng, natural gas; S, steam; W, windmill; H, hand; number indicates horsepower.

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No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment			
173	23.7	June 17, 1936	B,H	D	Wood curb; no casing. Never fails.
174	17.0	June 13, 1936	B,H	D,S	Do.
175	18.4	Mar. 16, 1936	C,E, 1/4	D	Brick curb; 35 feet stone casing at top. Never fails.
176	15.9	June 30, 1936	B,H	D,S	Brick casing. Good water reported.
178	--	--	C,E, 1 1/2	I	Water from sand at 320 to 348. Mrs. J. W. Yates tract.
180	59.0	June 30, 1936 e/	B,H	P	Brick curb; tile casing. Never fails.
181	62.0	do.	B,H	P	Brick curb; no casing. Never fails.
182	58.0	do.	B,H	P	Brick curb. Never fails.
185	21.8	June 3, 1936	C,E,1	D	Concrete curb; no casing. Never fails. Pumps 5 gallons a minute.
186	24.2	do.	B,H	D	Wood curb; no casing. Never fails.
188	16.3	Apr. 10, 1936	A,E, 1/6	D	No curb; no casing. Furnished 500 gallons a day in 1935.
189	40.8	Apr. 9, 1936	--	N	Reported salt and pepper sand at 160-165 and white sand at 210-225 feet. 170 feet 6-5/8 inch casing with 80 feet 5-3/16 inch in bottom.
191	24.9	June 1, 1936	B,H	D,S	Wood curb; no casing. Reported unfit for washing.
192	11.7	Apr. 6, 1936	None	N	Derrick blew down. Well abandoned. G. W. Jones Est.
192a	--	--	None	--	W. E. Jones lease. See log.
192b	--	Nov. 24, 1931	None	N	Not potable. Drilling new well for better quality.
192c	11.0	do.	A,E,-	B Ind	No curb; tile casing, top to bottom. Burandt tract.
193	145.0	Mar. 30, 1936	C,E,5	D	Reported static head at 105 feet in 1931. Pumps 3,000 gallons an hour. Water in sand between 255-285 feet.
194	--	Mar. 23, 1936	A,E,-	Of	Pumps continuously. H. M. Lawrence lease. See log.
194a	--	Nov. 23, 1931	A,-,-	Of	H. M. Lawrence lease. See log.
195	--	June 3, 1936	A,-,-	Of	Steel curb; steel casing. Operates 24 hours a day to supply refinery. E. B. Prather lease.
196	34.9	June 1, 1936	B,H	D	Wood curb; no casing. Never fails.

d/ I, irrigation; Ind, industrial; Of, oil field; P, public; D, domestic; S, stock; N, not used.

e/ Water level reported.

f/ No water sample collected for analysis.

Records of wells and springs in Gregg County--Continued

No.	Distance from Gladewater	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
201	7½ miles northeast	Dolores Sanches	W. E. Jones	--	--	36-d	36	3.0
202	6½ miles northeast	G. W. Hooper	Dyck Oil Co.	--	1931	600	--	--
f/202a	5½ miles northeast	do.	Stanolind Oil Co.	L. W. Little	1931	837	10	--
f/202b	7 miles northeast	do.	Tidal Oil Co.	--	1931	942	8½	--
204	5½ miles east	do.	Thrasher & Stuckey	Gus Davis	--	19-d	--	--
205	5½ miles east	do.	A. F. Jones	Simon Jones	--	15-d	--	--
f/206	4½ miles northeast	David Ferguson	Magnolia Petr. Co.	Layne-Texas Co.	1931	942	10	--
208	1½ miles northeast	Thompson Allen	A. J. Sanders	B. W. Flect	--	32-d	--	3.8
209	1 mile north	W. Goodman	L. J. Everett	J. Curry	--	42-d	36	2.3
210	¾ mile north	Lewis J. Rigsby	do.	J. D. Robertson	--	23-d	--	2.5
214	2 miles northeast	Mason Moseley	Humble Oil & Ref. Co.	Layne-Texas Co.	1931	1,084	9-7/8	--
215	do.	Hayden Edwards	H. F. McKinney	--	--	Spring	--	--
f/216	1½ miles northeast	Thompson Allen	Tidal Oil Co.	L. W. Little	1931	841	10	--
f/218	2½ miles northeast	Hayden Edwards	Mollie Fenn	Prince Bros.	1933	420	6½	--
219	2½ miles east	do.	J. H. Rozeman	--	--	22-d	40	2.5
220	2½ miles northeast	David Ferguson	J. F. Bowles	J. F. Bowles	1936	43-d	--	3.0
f/221	2½ miles east	do.	A. Carter	Humble Oil & Ref. Co.	1932	800	6	--
222	3 miles northeast	do.	J. F. Bowles	Walter Meller	1934	400	8½	0.7
f/223	do.	do.	do.	do.	1933	400	6½	--
224	do.	do.	do.	do.	1936	446	--	--
225	4 miles east	do.	W. F. Duncan	Atlantic Oil Prod. Co.	1932	900	6½	1.1
f/226	4½ miles east	do.	do.	do.	1932	900	6½	--
227	do.	do.	do.	--	1932	25-d	--	--
228	4½ miles east	H. Hathaway	Amerada Petr. Co.	L. W. Little	1933	248	8-5/8	--
230	4½ miles east	G. W. Hooper	Barnsdall Oil Co.	do.	1931	888	6-5/8	--
231	5½ miles east	do.	Odie Jones	Simon Jones	--	30-d	36	2.5

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No.	Water Level		Pump Use		Remarks
	Depth below measuring point (feet)	Date of measurement	and power c/	of water d/	
201	33.2	June 16, 1936	B,H	D	Wood curb; no casing. Never fails.
202	--	--	A,Ng, 96	Of	Depth reported. Has supplied 7 drilling rigs at same time. J. E. Christian lease.
202a	--	--	--	--	C. Wilhite lease. Casing perforated at all sands. See log.
202b	--	--	--	--	W. E. Jones lease. See log.
204	13.9	June 12, 1936	B,H	D	Wood curb; no casing. Geo. Jones farm.
205	14.4	June 11, 1936	--	Ind	
206	200	Apr. 3, 1936	A,Ng, 90	Of	H. Hampton farm. Reported bad water. Not in use at present. See log.
208	29.7	June 11, 1936	B,H	S	
209	39.3	do.	--	Ind	
210	25.7	do.	B,H	Ind	
214	--	--	T,E, 60	D,Of	Treated for domestic use. W. W. Holland lease. See log. Pumped about 20 hours daily.
215	Flows	Apr. 1, 1936	None	Of	Flows out of sand and iron gravel. Used for drilling.
216	--	--	A,-,-	Of	J. W. Shepherd lease. See log.
218	--	--	-,Ng, -	Of	Depth reported. Formerly used for drilling.
219	24.3	Apr. 4, 1936	B,H	D	Wood curb; no casing. Nearly fails in drought.
220	41.3	June 10, 1936	B,H	D,S	No casing. Never fails.
221	--	--	C,E,-	--	Reported oil was produced from this sand. Supposedly by-passed through faulty casing of nearby oil well.
222	114.8	June 10, 1936	Gl,-,-	Of	Water jetted; 90 pounds pressure; natural gas. Produces 40,000 gallons a day through 4-inch tubing.
223	--	--	Gl,-,-	Of	Steel curb; steel casing. Supplies gasoline plant. Water jetted with natural gas.
224	--	--	Gl,-,-	Of	Reported production 100 gallons an hour. See log.
225	185.8	June 22, 1936	None	N	Abandoned in 1933. Depth reported.
226	99.0	do.	None	Of	Abandoned in 1933. Depth reported. Small production reported.
227	--	--	C,G,5	D	Reported produces 5 gallons a minute.
228	--	--	C,Ng, 6	D,Of	Steel casing. Reported turbid water unfit for drinking and washing. M. Killingsworth lease. See log.
230	--	--	--	--	888 feet of 6-5/8 steel casing. Perforated at water sand. G. E. Adams lease. See log.
231	29.3	Mar. 3, 1936	B,H	D,S	Wood curb; no casing. Never fails.

Records of wells and springs in Gregg County--Continued

No.	Distance from Glade-water	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
f/232	6 $\frac{1}{2}$ miles east	William H. Castleberry	Thad Snoddy	Harry Elliott	1931	--	6	8.6
f/233	6 $\frac{1}{2}$ miles east	William Robinson	do.	Yount-Lee Oil Co.	1933	--	6	3.7
238	5 $\frac{1}{2}$ miles east	William H. Castleberry	J. B. Doby	--	--	25-d	40	3.0
239	do.	do.	O. G. Murphy, Trustee	J. L. Chandler	1932	315	6-5/8	--
f/240	6 miles east	do.	D. B. McPherson	--	1932	800	--	--
241	6 $\frac{1}{2}$ miles east	Henry Hathaway	A. Christian	--	--	Spring	--	--
242	5 miles east	do.	Herbert Davis	Oscar Davis	1934	27-d	36	--
243	do.	William H. Castleberry	J. M. Tuttle	Amerada Petr. Co.	1931	965	8 $\frac{1}{4}$	1.5
244	do.	do.	do.	--	1931	34	6	--
245	do.	do.	do.	W. W. Lechner	1934	350	--	--
f/246	do.	do.	do.	Atlantic Oil Prod. Co.	1931	300	--	--
247	4 $\frac{1}{2}$ miles east	do.	-- Jones	--	--	Spring	--	--
f/250	3 $\frac{1}{2}$ miles east	Wm. G. Wakeland	M. Turner Est.	Willie Smith	1935	24-d	36	2.7
251	2 $\frac{1}{4}$ miles east	Geo. A. Thomson	Empire Gas & Fuel Co.	L. W. Little	1931	745	6-5/8	--
252	2 miles east	do.	Texas Co.	--	--	580	6	--
f/252a	2 $\frac{1}{4}$ miles east	Hayden Edwards	Houston Oil Co.	Otto Schkade	1931	621	7	--
253	1 $\frac{1}{2}$ miles northeast	Wm. Carlton	Mrs. W. L. Jopling	--	--	37-d	40	3.0
254	1 $\frac{1}{2}$ miles northeast	Hayden Edwards	Magnolia Petr. Co.	Layne-Texas Co.	1931	1,078	8	--
f/255	2 miles east	do.	Amerada Petr. Co.	F. V. Murray	1931	775	8-5/8	2.0
256	1 mile northeast	Lewis J. Rigsby	J. M. McFarland	--	--	15-d	--	--
257	$\frac{3}{4}$ mile east	do.	Cox-Hamon Oil Co.	Will Burke	1931	1,025	6-5/8	--
258	$\frac{1}{2}$ mile northeast	do.	City of Glade-water #1	Layne-Texas Co.	1931	826	6-5/8	--
259	do.	do.	City of Glade-water #2	do.	1931	725	12 $\frac{1}{2}$	--
260	do.	J. R. Grosby	Gladowater Gasline Co.	--	1935	400	8 $\frac{1}{2}$	--
261	$\frac{1}{4}$ mile east	Martha Dillard	Texas Oil Products Co.	Fred Fielder	1934	200	8 $\frac{1}{4}$	--

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No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment			
232	192.0	June 18, 1936	None	N	Steel casing, 2 inch tubing. Probably furnished water for 1 oil well.
233	107.2	do.	A,-	N	Steel casing, 2 inch tubing. Would furnish water for 2 drilling rigs. Probably furnished water to
238	24.6	Apr. 4, 1936	B,H	D	Wood curb; 1 foot tile casing at (drill 10 wells. bottom. Reported turbid.
239	--	--	C,Ng, 25	D	325 foot steel casing; 42 feet 4½ inch liner at bottom.
240	--	--	A,-	N	Reported too mineralized for use. Abandoned.
241	Flows	June 18, 1936	None	D,S	Flows aggregate of 2 gallons a minute from 2 open- ings from sand stone over loose white sandy shale.
242	25.4	do.	B,H	D,S	Wood curb; no casing.
243	143.0	June 22, 1936	A,Ng, -	Of	Steel casing. Reported production 335 gallons a min- ute. Furnished 3 drilling rigs at once and water for
244	16.0	do.	C,H	D	12 feet steel casing at top; 2 inch galvan-18 wells. ized tubing top to bottom. Never fails.
245	--	--	C,E,1	D	Depth reported. Produces 10 gallons a minute. Re- ported no drawdown after operating 10 hours.
246	117.0	June 22, 1936	--	--	Depth reported.
247	Flows	Apr. 2, 1936	-,E,½	D	Flows 5 gallons a minute out of sand and gravel. Never fails.
250	22.9	June 10, 1936	B,H	D,S	Wood curb; no casing. Nearly fails in drought.
251	--	--	A,Ng, 10	D	745 foot steel casing. Reported produces 100 gallons a minute. Static head reported lowering. L. S. Rogers lease. See log.
252	--	--	C,Ng, 6	Of	C. W. Clark lease. 36 feet 10 inch drive pipe at top. 480 feet 6 inch casing. 19 feet 4½ inch blank liner and 29 feet 4½ inch screen at bottom.
252a	--	--	--	--	Burknight lease. See log. Set 7 inch casing at 621 feet with 5 joints perforated on bottom.
253	35.6	Apr. 2, 1936	B,H	D	Wood curb; 6 feet tile casing at bottom. Strong well.
254	--	--	A,Ng, 90	Of	Saulter lease. Reported production 3,000 barrels a day from all sands down to 316 feet. See log.
255	169.0	Apr. 1, 1936	A,Ng, 50	Of	Continental State Bank tract. Tubing parted and not used for past year. See log.
256	7.6	June 11, 1936	--	S	
257	250.0	Mar. 30, 1936	C,G,7 e/	Of	L. A. Rodden lease. Reported production 2,000 bar- rels a day. Foams in boilers. See log.
258	111.0	Oct. 31, 1931	T,E, e/ 30	P	Sam Kay lease. Pumping level 134 feet producing 50 gallons a minute. Pump set at 259 feet. See log.
259	162.0	Nov. 18, 1934	T,E, 25	P	Sam Kay lease. Test at completion gave static level 157 feet, pumping level 234 feet, producing 140 gal- lons a minute. Pump set at 308 feet. See log.
260	166.0	Apr. 9, 1936	T,E, 7½	Of	T. W. Lee lease. Temperature 67° F. 100 feet 12½ inch surface casing. 400 feet 8½ inch casing with bottom 60 feet perforated.
261	--	do.	T,E,5	Of	Block 2, City of Gladewater. 200 feet 8½ casing with bottom 40 feet perforated. Temperature 67° F.

Records of wells and springs in Gregg County--Continued

No.	Distance from Glade- water	Survey	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Height of measuring point a- bove gro- und (ft.) b/
262	$\frac{1}{4}$ mile south	Martha Dillard	Morgan Utili- ties Co. #1	L. W. Little	1931	710	$6\frac{1}{4}$	2.2
263	do.	do.	Morgan Utili- ties Co. #2	do.	1931	618	--	0
264	$\frac{3}{4}$ mile west	do.	City of Glade- water #3	Layne-Texas Co.	1933	560	$8\frac{1}{2}$	0
265	$\frac{1}{2}$ mile southwest	do.	Sinclair- Prairie Oil Co.	Conway Bros.	1932	807	$8\frac{1}{2}$	--
f/266	$\frac{3}{4}$ mile southwest	do.	Mrs. E. G. Walker	Sulten & Daniels	1931	1,050	8-5/8	--
267	$1\frac{1}{4}$ miles southwest	E. A. Lambert	A. F. Shephard	--	1935	9-d	36	2.7
268	$2\frac{1}{4}$ miles southeast	Geo. A. Thomas	I. Isley	Iowa-Payne	1931	540	6-5/8	2.7
269	$3\frac{1}{4}$ miles east	Wm. G. Painter	J. W. Dobie	Ace Toler	--	18-d	24	3.0
270	$3\frac{3}{4}$ miles east	do.	Sells Petr. Co.	--	--	400	--	0
271	4 miles east	William H. Castleberry	Mrs. -- Allen	--	1936	48-d	40	2.5
f/271a	do.	do.	Sinclair- Prairie Oil Co.	Walter Meller	1931	885	$8\frac{1}{2}$	--
272	$3\frac{3}{4}$ miles east	Wm. G. Painter	Sun Oil Co. #2	C. W. Kennedy	1931	376	$8\frac{1}{2}$	--
272a	do.	do.	Sun Oil Co. #1	Wilt & Burke	--	905	8-5/8	--
274	$4\frac{1}{4}$ miles east	William H. Castleberry	Amerada Petr. Co.	Walter Meller	1934	404	8-5/8	--
f/274a	do.	do.	Sinclair- Prairie Oil Co.	Layne-Texas Co.	1931	627	6-5/8	--
275	$5\frac{1}{4}$ miles east	do.	Stanolind Oil Co. #1	L. W. Little	1931	872	6-5/8	2.0
276	$5\frac{1}{2}$ miles east	do.	Fred Adrien	--	1935	26-d	36	3.0
f/276a	do.	do.	do.	--	--	476	--	--
278	$6\frac{3}{4}$ miles east	Wm. Robinson	Julia Snoddy	--	1906	31-d	36	3.0
f/279	$6\frac{1}{4}$ miles east	William H. Castleberry	Arkansas Fuel Oil Co.	Arkansas Fuel Oil Co.	1935	400	--	--
280	do.	do.	do.	do.	1932	700	$6\frac{1}{2}$	--
281	$6\frac{1}{2}$ miles east	do.	Shano Oil Co.	Shano Oil Co.	--	600	$6\frac{1}{2}$	0.5
f/284	$6\frac{1}{4}$ miles east	John Ruddle	Amerada Petr. Co.	Amerada Petr. Co.	1932	--	--	--
285	7 miles east	Isaac Skillern	Gulf Prod. Co.	--	1931	964	--	--
288	7 miles southeast	John Ruddle	General Crude Oil Co.	--	--	250	6	--

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No.	Water Level Depth below measuring point (feet)	Date of measure- ment	Pump and power c'	Use of water d'	Remarks
262	70.1	Nov. 24, 1931	A, Ng, 22	Ind	A. White lease. Water level reported 100 feet Mar. 30, 1933. Produces 155 gallons a minute. Used for cooling and laundry. Unfit for making ice. See log.
263	143.0	Mar. 31, 1936	A, Ng, 22	Ind	A. White lease. Used for cooling. Supplies laundry. Unfit for making ice.
264	114.0	Oct. 10, 1932	T, E, e/ 15	P	Walker tract. Pumping level 144 feet producing 62 gallons a minute in 1933. Pump set at 159 feet. See log.
265	--	--	C, Ng, 6	Of	W. H. York lease. Static head reported at surface. See log.
266	--	--	None	N	Walker lease. Well abandoned 1935. Had 809 feet 8-5/8 inch casing with rest of hole cemented off. Flowing when plugged. Water sand 750-809.
267	7.4	July 8, 1936	B, H	--	Concrete curb; concrete casing, top to bottom. Never fails.
268	40.0	June 8, 1936	--, Ng, -	Of	6-5/8 inch steel casing. Water sand reported 49-54 feet. Produced 24 gallons a minute.
269	16.8	Apr. 10, 1936	C, E, 1/4	D, S	Brick curb and casing, top to bottom. Fails in drought. Fidal Oil Co. lease.
270	123.0	Apr. 4, 1936	C, G, 22	D, S	No curb or casing. 128 feet 2 1/2 inch tubing with screen at bottom. Produces 72 gallons a minute. Robert Fisher farm.
271	46.5	Apr. 10, 1936	B, H	D	Wood curb; no casing. J. W. Aiken farm. Replaced shallower well which went dry.
271a	--	--	--	--	J. W. Aiken lease. Estimated potential production 100 barrels an hour on gas lift. See log.
272	--	--	C, E, 10	D	A. Foote lease. Reported 400-500 barrels a day. See log.
272a	--	--	None	N	A. Foote lease. 690 feet 8-5/8 inch casing with 85 feet 7 inch perforated liner at bottom. See log.
274	--	--	C, G, 7 3/4	D	W. E. Bumpus farm. Operated 2 hours a day. See log.
274a	--	--	A, -	--	Mattie Moncrief lease. Static head, 122 feet. Pumping head 166 feet, producing 104 gallons a minute. 300 feet 2 inch air line. See log.
275	105.0	Apr. 6, 1936	A, G, 25	Of	L. E. Pearsons lease. Produces about 120 gallons a minute. Only operated 1 hour a week now. See log.
276	21.7	June 3, 1936	C, E, 1/2	D	No casing. Never fails.
276a	--	--	--	--	See log.
278	32.3	June 18, 1936	B, H	D	Wood curb; no casing. Never fails.
279	--	--	A, -, -	Of	S. G. Smith lease. Furnishes gasoline plant.
280	--	June 19, 1936	A, -, -	Of	Do.
281	91.0	June 23, 1936	C, E, -	D	S. G. Smith lease. Water sands reported at 335-355 and 570-590 feet.
284	--	--	None	N	L. R. Hearn lease. Reported depth 800-900. Abandoned. Furnished water to drill 8 oil wells.
285	300.0	Apr. 16, 1936	C, E, e/ 10	D	M. Smith lease. Well pumped about 6 hours daily. See log.
288	--	--	C, E, 3	D	F. T. Rumbert lease. Reported 45 feet 8 1/2 inch surface casing, 245 feet 6 inch casing, 25 feet 2 inch tubing.

Records of wells and springs in Gregg County--Continued

No.	Distance from Glade-water	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
f/289	7 miles southeast	John Ruddle	Adams & Lyles	Benson Bros.	1932	600	5-3/16	--
290	5 1/2 miles east	do.	Tidewater Oil Co.	Mid-Kansas Oil Co.	1931	843	8 1/4	--
f/290a	do.	do.	do.	do.	1931	147	6-5/8	--
291	do.	do.	Cox-Hanon Oil Co.	Wilt & Burke	1931	880	6-5/8	--
292	5 miles southeast	C. H. Alexander	Sutton-Hawkins Oil Co.	Sutton-Hawkins Oil Co.	1932	580	6	0.3
293	4 1/2 miles east	D. Moore	W. A. Moore	Sinclair-Prairie Oil Co.	1931	462	6	--
294	5 1/4 miles east	do.	Magnolia Petr. Co.	Layne-Texas Co.	1931	796	8 1/4	--
f/295	5 miles east	do.	Sinclair-Prairie Oil Co.	--	--	462	--	--
f/296	do.	do.	do.	Walter Moller	--	455	8 1/4	--
f/297	4 1/8 miles southeast	L. Moseley	Tidal Oil Co.	Fred Thrift	1931	869	8 1/2	--
298	4 1/4 miles east	William H. Castleberry	Sinclair Oil Co.	Walter Moller	1931	885	8 3/4	--
299	1 1/2 miles southeast	Wm. Tyndale	T. W. Lee	--	1911	21-d	--	2.0
f/299a	2 miles southeast	Geo. R. Rains	Sinclair-Prairie Oil Co.	Joe Delarue	1931	603	6-5/8	--
300	3 miles southwest	William W. Avery	A. F. Shephard	--	1900	26-d	36	--
301	3 miles south	do.	Lewis Woods	--	--	695	--	1.4
302	4 1/2 miles southeast	W. C. Alvice	Humble Oil Co.	Humble Oil Co.	1933	30-d	--	2.0

No.	Distance from Kilgore	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
401	6 1/2 miles north	P. McAnelly	Bob Davis	Bob Davis	1936	26-d	36	--
f/402	6 miles north	do.	Atlantic Oil Prod. Co.	Tom Palmer	1931	150	--	--
f/404	7 miles north	Francis W. Johnson	O. Moore	--	--	Spring	--	--

a/ All wells are bored or drilled unless dug well is indicated by d under "Depth."

b/ Measuring point was usually top of casing, top of pump base, or top of well curb.

c/ T, turbine; A, air-lift; GL, gas lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; Ng, natural gas; S, steam; W, windmill; H, hand; number indicates horsepower.

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No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measuring point (feet)	Date of measurement			
289	--	--	C,Ng, 7	Of	Taylor Anderson farm. Unused at present.
290	--	--	C,Ng, 10	D,Of	E. M. Nettleton lease. Well was swabbed in 1935. Corrodes boilers. See log.
290a	--	--	--	N	E. M. Nettleton lease. 104 feet of 6-5/8 inch steel casing plus 43 feet of 6-5/8 inch screen at bottom. Water sand at 105-147 feet.
291	250.0	Mar. 30, 1936	C,Ng, 7	Of	Collins Inv. Co. tract. Reported produces 4,000 barrels a day. Pump set 416 feet. See log.
292	104.0	May 21, 1936	G1	Of	J. A. Whittaker lease. 560 feet 6 inch casing. 80 pounds pressure, 350 feet 3 inch tubing, 330 feet 1 inch jet line. Reported no drawdown after 7 days constant operation producing 40 gallons a minute. Water sand reported 560-580.
293	--	--	G1	Of	Produces 2 inch stream of water.
294	--	--	C,Ng, 6	Of	R. B. White lease. Formerly owned by Vacuum Oil Co. Reported produces 15 gallons a minute. Forms scale
295	--	--	A,-,-	Of	James Moore et al lease. in boilers. See log. Screen set at 380-398 feet. See log.
296	--	--	A,-,-	Of	James Moore et al lease. Supplies Sinclair-Prairie plant 18 at camp 5. See log.
297	--	--	A,-,-	Of	Boston Moore lease. 228 feet of jet line. Purchased from Mid-Kansas. See log.
298	--	--	G1	D,Of	J. W. Akin lease. 19 feet 12 1/2 inch surface pipe, 750 feet 8 1/2 inch casing, 200 feet 6-5/8 inch casing. Formerly owned by Prairie Oil Co. See log.
299	19.2	June 8, 1936	B,H	D	Wood curb; tile casing at top. Co. See log.
299a	--	--	--	--	I. Isley lease. Temporarily abandoned. See log.
300	22.8	June 8, 1936	B,H	D	Wood curb; 6 feet tile casing at bottom. Never fails.
301	135.9	Apr. 29, 1936	C,G, 30	D	Well formerly owned by Sinclair Prairie Oil Co.
302	21.0	May 23, 1936 e/	C,E,-	D,Of	Concrete curb. Supplies pipe line camp. Strong well.

No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measuring point (feet)	Date of measurement			
401	--	June 3, 1936	B,H	D,S	Well not completed.
402	Flows	--	None	--	Artesian water passed up. Drilled deeper for oil. Depth of water sand reported. Mose Thomas lease.
404	Do.	May 23, 1936	None	S	Estimated flow, 10 gallons a minute from 2 openings in road ditch. Never fails.

d/ I, irrigation; Ind, industrial; Of, oil field; P, public; D, domestic; S, stock; N, not used.

e/ Water level reported.

f/ No water sample collected for analysis.

Records of wells and springs in Gregg County--Continued

No.	Distance from Kilgore	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
f/405	6½ miles north	Francis W. Johnson	J. C. Judge	Gulf Prod. Co.	1933	300	6	--
f/406	do.	do.	do.	do.	1932	300	6	--
407	6 miles northwest	J. A. Duncan	M. T. Cole	Geo. F. Luke	1932	30	2	--
408	6½ miles north	Judson Mender	Selby Oil & Gas Co.	Selby Oil & Gas Co.	1933	420	6	1.7
409	7 miles north	do.	Houston Oil Co.	Houston Oil Co.	1932	420	6	--
410	6½ miles north	A. Park	Sun Oil Co.	Sun Oil Co.	1932	400	6	2.6
411	6½ miles northwest	Samuel Brooks	Sinclair Prairie Oil Co.	Layne-Texas Co.	1931	1,008	8½	--
412	7 miles northwest	E. H. Grisham	American Liberty Oil Co.	Walter Moller	--	400	6	--
f/412a	7½ miles northwest	do.	Sinclair Prairie Oil Co.	Conway Bros.	1931	690	6-5/8	--
413	8 miles northwest	Wm. W. Friar	D. A. Shoemaker	D. A. Shoemaker	1932	97	4	--
416	8½ miles northwest	Wm. W. Avery	S. M. Smith	S. M. Smith	1906	38-d	36	2.4
417	do.	Alfred West	Ottie L. Stokley	T. A. Stokley	1911	20-d	--	2.3
418	7½ miles northwest	Stephen Winship	W. G. Smallwood	W. G. Smallwood	1925	--	--	--
419	6½ miles northwest	Bailey Anderson	L. G. Smith	L. G. Smith	1930	26-d	36	3.0
421	5½ miles northwest	do.	Sabine School	J. C. Bowling	1935	310	8½	--
422	5½ miles northwest	Wm. Penn	J. E. Welch	W. W. Pyle	1932	57-d	46	3.0
f/423	5 miles northwest	G. F. Penn	Tidal Oil Co.	L. W. Little	1931	845	6-5/8	--
424	4½ miles north	do.	Invincible Oil Co.	Walter Moller	1931	890	6½	0.2
425	do.	do.	M. H. Fuller	--	1935	23-d	36	2.0
426	4 miles north	Mary Scott	Sabine Valley Gas. Corp. #1	Walter Moller	1935	454	6½	--
427	do.	do.	Sabine Valley Gas. Corp. #2	do.	1935	467	8½	--
428	4 miles northwest	do.	Sabine Valley Gas. Corp. #3	do.	1936	557	8½	--
430	1½ miles north	L. B. Outlar	J. W. Brown	J. W. Brown	1932	24	5	--
f/430a	4 miles north	do.	Invincible Oil Co.	L. W. Little	1931	890	6-5/8	--
431	4¼ miles north	do.	Calvin Brown	--	--	Spring	--	--
432	do.	F. W. Farraner	Mrs. Otto Lockhart	Scott Bros.	1934	34-d	36	3.0
433	4 miles north	William McCurry	Sinclair Prairie Oil Co.	C. F. Hoeler	1931	846	6-5/8	--

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No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measuring point (feet)	Date of measurement			
405	--	June 3, 1936	None	Of	Well formerly flowed 10 gallons a minute. Was abandoned when ceased to flow.
406	--	do.	None	Of	Do.
407	18.0	May 20, 1936	C,F	D	2 inch casing, top to bottom. Sand point on bottom of pipe.
408	34.0	June 9, 1936	G1	Of	Sand reported at 420 feet. Well produces 2,000 barrels a day. M. T. Cole lease.
409	--	do.	A,-,-	Of	Well flowed for 15 months. Now jetted by air. M. T. Cole lease. See log.
410	24.1	do.	A,-,-	--	Well flowed 5 gallons a minute for 1 year. Water level reported constant.
411	50.0	Aug. 5, 1931	T,E, 60 e/	Cf	M. T. Cole lease. Foams in boilers. See log. Pumps 750 gallons a minute.
412	75.2	June 9, 1936	G1	Of	W. D. Lacey lease. 250 feet gas jet line. Draw-down 175 feet in 5 minutes with gas jet producing 500 gallons a minute.
412a	--	--	--	--	W. B. Telker lease. Temporarily abandoned. See log.
413	--	--	C,H	D,S	Course gray quicksand reported, 87-97 feet. Strong well.
416	35.7	June 9, 1936	B,F	D,S	Wood curb; no casing. Strong supply.
417	15.9	June 8, 1936	B,H	D	Wood curb; no casing. Nearly fails in drought.
418	--	--	B,H	--	Never fails.
419	27.5	June 9, 1936	B,H	D,S	Box curb; 10 feet brick casing at bottom. Never fails.
421	--	--	A,E,5	F	T. J. Chapman lease. Supplies school. Water level in abandoned well 9 feet away; 85.3 feet April 17, 1936. See log.
422	59.9	Apr. 30, 1936	B,H	D,S	Tom Bell lease. Wood curb; 3 feet wood casing at bottom. Reported bitter taste.
423	--	--	C,Ng, 10	Cf	Tom Bell lease. Formerly used for drilling. See log.
424	42.9	May 5, 1936	A,S,-	Of	Will Williams lease. Well flowed for 2 years. Foams in boilers. Produces 100 barrels an hour. See log.
425	23.4	May 8, 1936	B,F	D,S	Will Williams lease. Stone curb; 12 feet galvanized casing at top. Strong supply.
426	--	May 11, 1936	G1	D,Of	Laura Howard lease. Treated for boiler use. See log.
427	--	do.	G1	D,Of	Do.
428	--	do.	G1	D,Of	Laure Howard lease. Treated for boiler use.
430	22.0	May 12, 1936	C,T	D,S	Calvin Brown lease. No curb; no casing. Supply exhausted after pumping 8 gallons. Weak supply.
430a	--	--	--	--	Calvin Brown lease.
431	Flows	May 12, 1936	None	--	Estimated flow: 1 gallon a minute from clay and sand. Never fails.
432	34.6	May 11, 1936	B,H	N	Wood curb; no casing.
433	--	--	G1	Of	John Elder lease. Estimated production July 2, 1931: 125 barrels an hour on gas-lift. See log.

Records of wells and springs in Gregg County--Continued

No.	Distance from Kilgore	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
f/435	4 miles north	James Hillard	Tide Water Oil Co.	Mid-Kansas Oil & Gas Co.	1931	294	6-5/8	1.0
436	2 1/2 miles north	L. B. Outlaw	C. S. Clayton	--	--	Spring	--	--
439	3 1/2 miles north	Wm. McCurry	Houston Oil Co.	--	1931	800	6	--
440	3 1/2 miles north	Mary Scott	Wm. Pentecost	--	--	13-d	36	2.0
441	2 1/4 miles north	John Blair	Magnolia Petr. Co.	Layne-Texas Co.	1931	1,022	8 1/4	--
442	3 miles northwest	Allen Norris	Sinclair Prairie Oil Co.	Walter Meller	1931	852	6-5/8	2.0
443	2 1/2 miles northwest	do.	C. L. McMahon	H. C. Vaughn	1931	937	6	3.0
f/444	3 1/4 miles northwest	John Blair	Tide Water Oil Co.	Mid-Kansas Oil & Gas Co.	1931	937	8 1/4	--
445	3 1/2 miles northwest	Margaret Tennison	Mrs. R. A. Gray	Scott Bros.	Old	54-d	50	3.0
446	4 miles northwest	David Dainwood	Houston Oil Co.	--	1931	777	--	--
f/447	4 1/4 miles northwest	Margaret Tennison	North Chapel School	J. C. Bowling	--	381	--	--
448	do.	James M. Norris	Sinclair Prairie Oil Co.	O'Donnell & Dyer	1931	817	--	--
450	3 1/2 miles northwest	do.	Cumi Wells	--	--	21-d	36	--
451	3 1/4 miles northwest	Margaret Tennison	Jas. Berry	--	--	Spring	--	--
452	5 miles northwest	Robt. M. Hoggue	W. W. Chapman	--	--	do.	--	--
454	6 1/4 miles northwest	John B. Porter	Rube Dixon Est.	Rube Dixon	1898	26-d	36	2.6
455	6 miles west	Jas. Manford	P. Kennedy Est.	P. Kennedy	1936	34-d	--	3.0
456	4 1/2 miles west	Thos. Johnson	Taylor Cameron	Ivy Scott	1925	34-d	36	3.1
457	3 1/2 miles west	Geo. W. Wheelock	Mrs. G. W. Goforth	--	1886	23-d	48	2.0
f/458	3 1/4 miles west	Wm. P. Chisum	H. Goforth	Lonnie Glasscock	1935	230	--	--
459	3 miles west	do.	do.	H. Goforth	1930	12-d	36	3.0
460	2 1/2 miles west	do.	Sun Oil Co.	Walter Meller	1934	424	7	--
460a	2 1/4 miles west	do.	do.	C. G. Vaught	1931	915	8 1/4	--
462	2 1/2 miles northwest	do.	Tide Water Oil Co. #1	Mid-Kansas Oil & Gas Co.	1931	462	8 1/4	--
f/463	do.	do.	Tide Water Oil Co. #2	do.	1931	956	8 1/4	--
464	do.	W. F. Hyde	Hartor & Gaskoy	Blackie Philips	1931	900	6-5/8	3.0

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No.	Water Level Depth, Date of below measure- ment measuring point (feet)	Pump and power c/	Use of water d/	Remarks
435	31.1 May 8, 1936	None	N	M. B. Hughey lease. Not used since 1932. See log.
436	Flows do.	do.	--	Estimated flow: 10 gallons a minute from white sand and clay. Never fails.
439	-- --	Gl	Cf	M. B. Hughey lease. Reported foams and corrodes in boilers.
440	9. May 29, 1936	B,F	D	Concrete curb; no casing.
441	-- --	A,Ng, 90	D,S, Of	G. B. Andrews lease. Furnishes 600 gallons a minute with 160 pounds air pressure. See log.
442	153.7 May 12, 1936	Gl	S,Of	A. A. Lockhart lease. Reported water level formerly 30 feet. See log for nearby well.
443	108.0 May 8, 1936	Gl	S,Of	Fine white water sand at 837-937 feet. Corrodes boilers. Estimated production 450 gallons a minute
444	-- Apr. 15, 1936	C,Ng, 10	Of	C. G. Strong lease. Well purchased by gas lift. from Mid-Kansas Oil & Gas Co. See log.
445	54.0 Apr. 23, 1936	B,H	D,S	Cement curb; no casing. Water reported turbid. Large supply.
446	125.0 May 8, 1936	Gl	Of	S. B. Hall lease. Purchased from Heep Oil Co. Reported turns yellow when boiled.
447	-- --	None	N	A. A. Kin lease. Depth reported.
448	-- --	Gl	Cf	H. J. Thomas lease.
450	21.3 May 29, 1936	B,H	--	Wood curb; no casing. Angus Jackson farm.
451	Flows May 28, 1936	None	--	Estimated flow: 3 gallons a minute from sand. Never fails.
452	do. Apr. 27, 1936	do.	--	Estimated flow: 5 gallons a minute from sand under limestone. Temperature 61° F.
454	24.1 June 10, 1936	B,H	D	No casing. Never fails.
455	34.2 May 29, 1936	B,H	--	Wood curb; no casing. Well not yet completed. Log: white sand, 0-3; red and white shale, 3-11; white
456	34.2 do.	B,H	D,S	Wood curb; no casing. Never sand, 11-33 feet. fails.
457	19.5 do.	C,F	D,S	Cement curb; no casing. Never fails.
458	-- --	C,-,-	N	Water sand reported; 200-230 feet. Well reported sanded up now.
459	8.2 May 29, 1936	C,E, 2	D	Brick curb; brick casing. Reported pumps dry in 2 hours discharging 20 gallons a minute.
460	85.0 July 9, 1934 e/	C,E, 10	D	Chas. Lloyd farm. 371 feet, 7 inch casing, perforated 60 feet from bottom. See log.
460a	-- Nov. 24, 1931	A,-,-	--	Chas. Lloyd lease. Estimated production: 15,000 barrels a day. See log.
462	-- June 1, 1931	A,Ng, 25	D,Of	E. D. R. Bivens lease. Purchased from Mid-Kansas. See log.
463	-- June 24, 1931	None	H	Do.
464	107.5 May 8, 1931	Gl	D,Of	M. B. Andrews lease. Estimated production, 500 gallons a minute. Furnished water for 12 drilling rigs in 1931.

Records of wells and springs in Gregg County--Continued

No.	Distance from Kilgore	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
f/465	2 miles northwest	S. P. Hollingsworth	Tide Water Oil Co.	Mid-Kansas Oil & Gas Co.	1931	900	8 $\frac{1}{4}$	--
f/466	$\frac{1}{2}$ mile north	Mary Van Winkle	do.	S. C. Cox	1931	957	8 $\frac{1}{4}$	1.0
f/467	1 $\frac{1}{2}$ miles northwest	S. P. Hollingsworth	do.	F. V. Murray	1931	224	6-5/8	2.0
467a	1 $\frac{1}{2}$ miles northwest	Mary Van Winkle	Gulf Oil Co.	Benson Drilling Co.	--	850	4	--
f/467b	do.	do.	Shell Petr. Co.	--	--	892	--	--
468	City Park	do.	City of Kilgore #4	Layne-Texas Co.	1934	780	10-5/8	--
468a	NE Corner	do.	Magnolia Petr. Co.	-- Leard	1931	420	5-3/16	1.0
468b	Near Center	do.	I. & G. N. R. R.	McMasters & Pomeroy	--	805	--	--
469	In City	Mary Van Winkle	City of Kilgore #1	Layne-Texas Co.	1931	875	8 $\frac{1}{4}$	--
469a	do.	do.	City of Kilgore #2	do.	--	800	8 $\frac{1}{4}$	--
469b	do.	do.	Kilgore Hotel	J. W. Lude	1931	630	6	--
470	do.	do.	City of Kilgore #3	Layne-Texas Co.	1934	906	6-5/8	--
471	$\frac{1}{2}$ mile south	do.	Humble Oil & Ref. Co.	do.	1931	908	8 $\frac{1}{4}$	--
473	$\frac{1}{2}$ mile west	do.	Roger Lacey	--	1933	512	--	--
474	In City	do.	Thomas D. Humphrey	--	1934	912	7	--
475	1 $\frac{1}{2}$ miles south	do.	Hercules Ref. Co.	--	1933	400	6	--
476	1 $\frac{1}{2}$ miles west	do.	Shell Petr. Co.	Layne-Texas Co.	1931	500	10	--
f/477	do.	do.	do.	do.	1931	--	--	1.5
f/478	1 $\frac{1}{2}$ miles west	John S. Carithers	Wills Smith	Barnsdall Petr. Co.	1931	150	6	--
479	2 miles west	do.	do.	Hawkie Petr. Co.	1931	641	6	0.7
480	2 $\frac{1}{2}$ miles west	Wm. P. Chisum	Magnolia Petr. Co.	Layne-Texas Co.	1931	953	6-5/8	1.5
f/481	do.	do.	Tide Water Oil Co.	S. C. Cox	1931	955	8 $\frac{1}{4}$	--
f/481a	do.	do.	do.	Mid-Kansas Oil & Gas Co.	1931	249	6-5/8	--
482	2 $\frac{1}{2}$ miles west	do.	Mun. Blackman	--	--	15-d	--	1.5
f/483	3 $\frac{1}{2}$ miles southwest	do.	T. A. Beall	Ward Oil Corp.	1931	--	--	--

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No.	Water Level Depth below measuring point (feet)	Date of measure- ment	Pump and power c./	Use of water d./	Remarks
465	--	July 11, 1931	--	--	M. G. Barton lease. Purchased from Mid-Kansas Oil & Gas Co. See log.
466	102.2	Apr. 15, 1931	None	H	J. S. King lease. Sanded up and abandoned in 1935. Reported formerly produced 125 barrels an hour. See log.
467	76.7	May 6, 1931	None	N	M. G. Barton lease. Purchased from Mid-Kansas Oil & Gas Co. Abandoned. See log.
467a	--	--	--	Of	H. C. Alexander lease. 622 feet 4 inch casing, 403 feet 1 1/2 inch air line. Casing shot at 360 feet.
467b	14.0	Nov., 1931 e/	--	--	Elder Bros. lease. Reported pumping level 60 feet producing 600 gallons a minute. Perforated casing
468	111.0	Sep. 14, 1934	T,E, 40	P	Pump set, 199 feet. Pumping level, 135 feet producing 165 gallons a minute. See log.
468a	74.9	Nov. 30, 1931	--,-,--	D,S, Of	Concrete curb. Perforated liner in bottom sand. See log.
468b	--	--	--	Ind	See log.
469	87.0	May 11, 1931 e/	T,E, 30	P	Temperature 80° F. Pump set, 122 feet. Drawdown 16 feet producing 350 gallons a minute. Static level later reported lowered to 110
469a	--	Nov. 22, 1931 e/	T,E, 25	P	Pumps considerable sand. Produces 80 gallons a minute. Helps furnish city. Tempera-
469b	--	--	C,E,-	P	40 feet 1 1/8 inch surface pipe. 350 feet 6 inch casing. Cement packet at 80 feet. 5-3/16 liner to bottom. See log.
470	134.0	Sep. 14, 1934 e/	T,E, 25	P	Pump set 179 feet. Produces 340 gallons a minute. See log. Temperature 80° F.
471	76.0	Apr. 29, 1931 e/	T,E, 50	D,S, Of	S. S. Laird "B" lease. Drawdown 20 feet producing 100 gallons a minute. See log.
473	--	--	A,-,-	Of	Supplied refinery 2 years. Jetted with 100 pounds air pressure. Sand reported 510 feet.
474	--	--	A,Ng, -	Of	A. Spear lease. 817 feet 7 inch casing. 111 feet 5-3/16 perforated liner. 815 feet 3 inch tubing. 695 feet 2 inch air line inside tubing.
475	--	--	A,-,-	Of	A. B. Spear lease. Furnishes 40,000 gallons a day for 24 unit gasoline plant.
476	70.0	Apr. 13, 1936 e/	T,E, 10	D,Of	W. W. Elder lease. 450 feet steel casing, 5 inch tubing. Formerly produced 200 gallons a minute.
477	44.2	do.	None	N	W. W. Elder lease. Abandoned 1934. Reported static level 14 feet in 1931.
478	Flows	June 30, 1936	None	--	Reported to flow 2 inch stream.
479	86.8	May 29, 1936	A,-,-	Of	Produces 11,000 gallons a day for Humble Pipe Line Co.
480	110.6	Apr. 13, 1936	A,Ng, 90	Of	J. M. Blackman lease. Initial static level 78 feet. Reported production 200 gallons a minute. See log.
481	--	Nov., 1931	A,-,-	Of	J. M. Blackman lease. Purchased in 1931 from Mid-Kansas Oil & Gas Co. See log.
481a	--	do.	A,-,-	Of	J. M. Blackman lease. Well not operating but equipped for air lift. Purchased from Mid-Kansas Oil & Gas Co. See log.
482	6.7	May 26, 1931	C,H	D	Wood curb. Reported alum taste. See log.
483	--	--	C,Ng, 6	D	J. R. Beall farm. Reported production 60 gallons a minute.

Records of wells and springs in Gregg County--Continued

No.	Distance from Kilgore	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
484	3½ miles southwest	Wm. P. Chisum	J. S. King	--	1932	28-d	--	3.0
485	do.	do.	J. R. Beall	W. T. Freeman	1932	14-d	6-5/8	--
486	do.	do.	Tidewater Oil Co.	Mid-Kansas Oil & Gas Co.	1931	972	6-5/8	0.5
f/489	do.	do.	Tidewater Oil Co.	do.	1931	290	6-5/8	--
491	4¼ miles west	Wm. H. Johnson	John I. Choice Est.	--	1932	37-d	--	3.0
f/491a	3½ miles west	R. R. Bobbitt	Tidal Oil Co.	L. W. Little	1931	242	6-5/8	--
494	5¼ miles west	A. M. Coleman	J. S. Dansby	--	--	Spring	--	--
495	5 miles west	do.	Mt. Peschke School	--	1933	17-d	60	0
496	5 miles west	Wm. H. Johnson	Solomon Sheffield Est.	Frank Moseley	1930	16-d	36	3.0
497	6 miles west	Geo. Melton	Mrs. F. J. Glover	--	1925	29-d	36	2.5
498	6¼ miles west	G. Needham	B. B. Seals Est.	--	--	33-d	36	3.0

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
502	2 miles south	Avery R. Johnson	Mrs. J. D. Martin	--	1909	29-d	36	2.5
503	do.	do.	D. H. Jones	Walter Meller	1934	467	6	--
504	1½ miles south	do.	Henry Butler	--	--	11-d	36	3.0
507	2½ miles southwest	Manson Taylor	R. Lacey	F. Rayborn	--	17-d	36	3.0
508	do.	S. P. Ford	Bill Dean	--	--	15-d	72	2.0
512	3¼ miles southwest	Alexander McDonald	Tilton Gray	--	--	Spring	--	--
513	3 miles southwest	do.	Dr. J. Falvey	--	--	do.	--	--
514	3½ miles west	Alexander Ferguson	L. A. Mackey	--	--	do.	--	--
515	5 miles west	S. S. Davis	J. R. Castleberry	J. R. Castleberry	1916	31-d	36	2.7

a/ All wells are bored or drilled unless dug well is indicated by d under "Depth."

b/ Measuring point was usually top of casing, top of pump base, or top of well curb.

c/ T, turbine; A, air-lift; Gl, gas lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; Ng, natural gas; S, steam; W, windmill; H, hand; number indicates horsepower.

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No.	Water Level		Pump		Remarks
	Depth	Date of	and	Use	
	below	measure-	power	of	
	measur-	ment	c/	d/	
	ing point				
	(feet)				
434	30.0	May 26, 1936	B,H	N	Wood curb; no casing.
485	7.5	do.	C,H	D	
486	60.0	e/	A,-,-	Of	J. R. Beall lease. Purchased from Mid-Kansas Oil & Gas Co. See log.
489	--	--	A,-,-	Of	J. R. Beall lease. 250 feet 6-5/8 casing with 43 feet of 6-5/8 screen on bottom. See log.
491	37.8	May 26, 1936	B,H	D	Wood curb; no casing.
491a	--	--	--	--	Terrell lease. 42 feet 8 1/4 surface pipe. 242 feet 6-5/8 casing. Screen at 127 feet. See log.
494	Flows	May 27, 1936	None	D,S	Estimated flow: 10 gallons a minute from sand rock. Never fails.
495	15.7	do.	B,H	N	No casing. Abandoned.
496	16.2	May 26, 1936	B,H	D,S	Wood curb; no casing. Never fails.
497	31.7	do.	B,H	D	Wood curb; no casing. Nearly fails in drought.
498	34.6	do.	B,H	D,S	Wood curb; 18 feet tile casing at bottom. Nearly fails in drought.

No.	Water Level		Pump		Remarks
	Depth	Date of	and	Use	
	below	measure-	power	of	
	measur-	ment	c/	d/	
	ing point				
	(feet)				
502	31.1	June 24, 1936	B,H	D,S	Brick curb; 6 feet tile casing at bottom.
503	32.0	June 30, 1936	A,-,-	D	Reported production 100 gallons a minute. Reported 60 feet water sand.
504	10.0	May 26, 1936	B,H	D,S	Wood curb; no casing. Never fails.
507	19.0	May 25, 1936	B,H	D	Wood curb; no casing. Strong supply.
508	13.2	June 1, 1936	C,E, 1/2	D	Wood curb; brick casing at top.
512	Flows	Apr. 24, 1936	None	D,S	Wood cased. Estimated flow: 3 gallons a minute from white sand. Never fails.
513	do.	Apr. 23, 1936	do.	D	Cement basin, galvanized discharge pipe. Estimated flow: 2 gallons a minute. Never fails.
514	do.	June 23, 1936	do.	D	Estimated flow: 3 gallons a minute from sand.
515	28.7	June 3, 1936	B,H	D,S	Wood curb; no casing. Never fails.

d/ I, irrigation; Ind, industrial; Of, oil field; P, public; D, domestic; S, stock; N, not used.

e/ Water level reported.

f/ No water sample collected for analysis.

Records of wells and springs in Gregg County--Continued

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
516	6 $\frac{1}{4}$ miles west	John Keiser	A. A. King	U-Tex Oil Co.	1936	14-d	36	3.0
f/517	6 $\frac{1}{2}$ miles west	P. McAnelly	Atlantic Oil Prod. Co.	Atlantic Oil Prod. Co.	1931	--	6	Flowed
f/518	6 $\frac{3}{4}$ miles west	do.	do.	do.	1931	--	6	do.
519	7 miles southwest	Silas Baggett	Sun Oil Co.	A. A. Bessire	1934	16-d	40	1.4
520	7 $\frac{1}{4}$ miles southwest	James Hilliard	Tidal Oil Co.	L. W. Little	1931	906	6-5/8	2.0
521	7 $\frac{1}{2}$ miles southwest	Silas Baggett	A. G. Morton	--	--	25-d	36	3.3
524	6 $\frac{1}{2}$ miles southwest	Robert H. Foote	Wm. Clayton	--	--	Spring	--	--
525	6 miles southwest	Geo. W. Groce	Magnolia Petr. Co.	--	1931	218	--	--
526	6 $\frac{3}{4}$ miles southwest	Wm. McCurry	G. B. Brown	G. B. Brown	--	34-d	50	2.5
527	6 $\frac{1}{2}$ miles southwest	Robt. H. Foote	Shell Pipe Line Co.	Walter A. Meller	1933	243	7	0
528	6 miles southwest	do.	Will Davis	--	1911	26-d	42	2.4
529	5 $\frac{1}{2}$ miles southwest	do.	T. W. Swiley	--	--	Spring	--	--
530	4 miles southwest	M. M. Smith	Porter Horton	--	1935	18-d	48	3.0
531	4 $\frac{1}{4}$ miles southwest	Henry G. Hudson	Atlantic Pipe Line Co.	Walter Meller	1935	365	6	0
532	5 $\frac{1}{4}$ miles southwest	Haden Edwards	T. M. Sprinks	--	Old	22-d	36	3.7
533	5 $\frac{1}{4}$ miles southwest	do.	Frank Adams #1	Humble Oil & Ref. Co.	--	800	4	8.0
534	5 miles southwest	do.	Boney Terrell	--	1895	25-d	36	2.0
535	4 $\frac{1}{2}$ miles southwest	John Belcher	B. A. Skipper	Humble Oil & Ref. Co.	--	2,100	6-5/8	--
536	4 $\frac{1}{4}$ miles southwest	do.	do.	do.	--	1,705	4	2.0
f/536a	4 $\frac{3}{4}$ miles southwest	do.	Dr. J. Falvey	--	--	24-d	--	--
536b	do.	do.	do.	--	--	Spring	--	--
537	3 $\frac{1}{4}$ miles south	C. A. Frazer	J. H. Culver	Humble Oil & Ref. Co.	1929	800	3	0.5
538	3 miles south	Avery R. Johnson	J. H. McHaney Est.	Will Robertson	1917	23-d	36	2.0
539	2 $\frac{1}{2}$ miles south	do.	do.	--	--	Spring	--	--

a/ All wells are bored or drilled unless dug well is indicated by d under "Depth."

b/ Measuring point was usually top of casing, top of pump base, or top of well curb.

c/ T, turbine; A, air-lift; Gl, gas lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; Ng, natural gas; S, steam; W, windmill; H, hand; number indicates horsepower.

G. H. Shafer and W. L. Lyle, Project Superintendents

No.	Water Level		Pump and of power c/	Use of water d/	Remarks
	Depth below measuring point (feet)	Date of measurement			
516	15.8	May 21, 1936	B,H	D	Wood curb; concrete casing. Never fails.
517	--	--	None	N	William Zie ler lease. Well deepened for oil test and water shut off.
518	--	--	do.	N	Percy McGeorge lease. Well deepened for oil test.
519	3.7	June 1, 1936	Gl,-	Of	A. G. Merton farm. Wood curb; wood casing. Never fails.
520	87.5	Apr. 15, 1936	Gl,-	D,Of	M. B. Hughey lease. Estimated production 450 gallons a minute. See log.
521	26.1	June 1, 1936	B,H	D	Wood curb; no casing.
524	Flows	Apr. 24, 1936	None	D,S	Wood curb around spring. Estimated flow: 5 gallons a minute from sand. Temperature 70° F.
525	--	--	A,-,-	--	J. A. Norris lease. Diesel powered. Reported well formerly flowed. Air jet set at 120 feet. Reported
526	33.0	Apr. 22, 1936	B,H	D	Wood curb; 5 feet produces 2,000 barrels a day. galvanized casing at bottom.
527	"	Apr. 27, 1936	A,E,2 e/	D,Of	Rufus Smith lease. Initial test produced 700 gallons an hour by heads with air jet at 190 feet and
528	24.5	June 1, 1936	B,H	D,S	Brick operating pressure 40 pounds. See log. curb; no casing. Never fails.
529	Flows	May 23, 1936	None	D	Estimated flow: 6 gallons a minute from 3 openings in sand. Temperature 72° F.
530	15.6	June 1, 1936	B,H	D,S	Wood curb; wood casing at bottom.
531	45.0	Apr. 24, 1936	C,E,5 e/	D	Porter Horton and Dickson tract. Reported producing 20 barrels an hour. Temperature 70° F.
532	22.1	June 26, 1936	B,H	D,S	Wood curb; no casing. Never fails.
533	Flows	May 23, 1936	None	P	Supplies water company. 1,400 gallons a day for bottling. Temperature 69° F. See log. Flow estimated.
534	24.9	do.	B,H	D	Wood [as 50 gallons a minute in 1931 and 20 in 1936. curb; no casing.
535	Flows	Nov., 1931	None	P	Core test. Reported production 25 gallons a minute and depth 2,100 feet. Bottled water sold from this
536	"	Apr. 27, 1936	C,H e/	P	Formerly flowed 4 feet above ground. Bot- well. tled water sold from this well. Temperature 68° F.
536a	--	--	C,H	D,S	1 inch tubing. Strong supply.
536b	Flows	Nov. 24, 1936	None	D,S	Estimated flow: 1 gallon a minute from sand.
537	1.6	June 24, 1936	do.	N	Reported formerly flowed 4 feet above ground for 6 months. Slight flow until June, 1935.
538	13.2	do.	B,H	D	No casing. Never fails.
539	Flows	do.	None	D	Estimated flow: 3 gallons a minute from sand rock. Never fails.

d/ I, irrigation; Ind, industrial; Of, oil field; P, public; D, domestic; S, stock; N, not used.

e/ Water level reported.

f/ No water sample collected for analysis.

Records of wells and springs in Gregg County--Continued

No.	Distance from Kilgore	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
540	7 $\frac{1}{2}$ miles east	Henry Hoover	Dr. J. W. Falvey	--	--	Spring	--	--
542	7 $\frac{1}{2}$ miles east	do.	Joseph Taylor	--	--	19-d	--	2.5
543	do.	do.	Georgia Ann Cotton	--	--	Spring	--	--
544	7 $\frac{1}{2}$ miles east	do.	do.	--	--	do.	--	--
545	7 miles east	do.	W. Cunyus	W. Cunyus	--	15-d	36	2.6
548	6 $\frac{1}{2}$ miles east	do.	John Henry Davis	Frank Jimerson	1862	21-d	--	3.0
549	6 $\frac{1}{4}$ miles east	Eleanor Bradley	J. P. Cunyus	J. P. Cunyus	1906	24-d	--	3.0
550	6 $\frac{1}{4}$ miles northeast	do.	T. B. Stinchcomb	George Jones	1930	23-d	--	3.0
552	5 $\frac{1}{2}$ miles northeast	Hayden Edwards	Raymond Jones	--	--	Spring	--	--
f/553	4 miles east	Geo. W. Lloyd	Stumptoe Church	--	1934	17-d	--	1.8
554	3 $\frac{1}{4}$ miles east	John Cole	Mrs. K. M. Pitner	T. F. Birdsong	--	23-d	48	3.0
557	2 $\frac{1}{2}$ miles northeast	William Hester	F. M. Spear	--	1936	28-d	--	1.0
558	3 $\frac{1}{2}$ miles north	John Moffitt	Arkansas Fuel Oil Co.	L. M. Carter	1932	369	6	1.0
559	2 $\frac{1}{2}$ miles north	M. Garrett	Sinclair Prairie Oil Co.	Walter Moller	1936	381	8 $\frac{1}{2}$	--
560	2 $\frac{1}{2}$ miles north	L. B. Outlaw	Wheelock & Collins	do.	1934	452	--	--
561	2 $\frac{1}{4}$ miles northeast	S. S. Bawmet	K. M. Pitner	--	--	Spring	--	--
563	1 $\frac{1}{2}$ miles north	John Wilkinson	R. H. Still	--	1934	30-d	36	3.0
564	1 $\frac{1}{2}$ miles northeast	do.	C. L. Still	--	--	20-d	36	2.7
f/565	1 $\frac{1}{4}$ miles northeast	Mary Van Winkle	J. W. Culver	Walter Moller	--	546	7	1.5
566	1 mile northeast	do.	Southport Petr. Co. #1	J. C. Bowling	1934	336	10	--
567	1 $\frac{1}{4}$ miles northeast	do.	Southport Petr. Co. #2	do.	1934	337	--	--
568	1 mile northeast	do.	Southport Petr. Co. #3	do.	1934	337	6	--
569	1 $\frac{1}{4}$ miles northeast	do.	Ocean Petr. & Ref. Co.	do.	1934	575	8 $\frac{1}{2}$	--
f/570	1 mile east	do.	Grace Utzman	--	--	25-d	36	2.0
571	1 $\frac{3}{4}$ miles northeast	S. S. Bawmet	J. H. Birdsong	--	1930	26-d	40	3.0
572	2 miles east	do.	G. P. Thomas	--	1900	29-d	36	3.0
573	do.	Henry Wells	E. X. Birdsong	R. V. Bates	--	16-d	--	3.0

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No.	Water Level		Pump Use		Remarks
	Depth below measuring point (feet)	Date of measurement	and power c/	of water d/	
540	Flows	June 26, 1936	None	N	Estimated flow: 1 gallon a minute from sandrock.
542	14.3	May 21, 1936	B,H	D,S	Wood curb.
543	Flows	June 24, 1936	None	S	Estimated flow: 5 gallons a minute from sand under rock. Temperature 61° F.
544	do.	do.	do.	S	Estimated flow: 5 gallons a minute from sand under rock. Temperature 32° F.
545	13.3	June 29, 1936	B,H	D,S	Wood curb; no casing.
548	19.7	June 26, 1936	B,H	--	Wood curb.
549	15.4	May 23, 1936	B,H	D	Brick curb; no casing.
550	22.2	June 26, 1936	B,H	D,S	Wood curb. Weak supply.
552	Flows	do.	None	D,S	Estimated flow: 4 gallons a minute from red sandstone. Supply piped to house. Reported flow increases before a rain.
553	7.8	May 23, 1936	B,H	N	Wood curb.
554	21.4	Apr. 16, 1936	B,H	D	Cement curb; no casing. Strong supply.
557	24.5	June 1, 1936	C,-,-	D	Concrete curb; reinforced concrete casing. 1 inch tubing.
558	99.9	Apr. 14, 1936	A,S,-	Of	M. B. Hughey lease. 3'3 feet 6 inch casing, 62 feet of 4 inch perforated liner. 1 inch air line.
559	--	--	None	--	Joe Lawther lease. Not completed for operation. See log.
560	--	--	GI	D,S, Of	Wm. Clayton lease. Reported foams in boilers.
561	Flows	Apr. 16, 1936	None	P	Estimated flow: 5 gallons a minute from 3 openings in sand and clay. Water bottled and sold. Temperature 62° F.
563	11.3	June 1, 1936	B,H	S	Wood curb. Water reported turbid. Nearly fails in drought.
564	10.9	do.	B,H	D	Wood curb. No casing.
565	136.7	Apr. 27, 1936	None	N	Reported gray water sand, 476-546 feet. Abandoned because of faulty casing seat.
566	--	--	A,S,-	Of	Grace Utzman lease. 52 feet 1 1/8 surface pipe. 336 feet 5-3/16 casing. See log.
567	--	--	A,S,-	Of	Grace Utzman lease. See log.
568	--	--	T,E, 13	Of	Grace Utzman lease. 41 feet of 12 1/2 drive pipe. 307 feet of 6 inch casing. Reported corrodes boilers.
569	--	--	A,S,-	Of	Grace Utzman lease. Temperature 68° F. See log. 441 feet 8 1/4 casing. 148 feet 3-5/8 liner set at
570	22.0	May 23, 1936	B,H	N	Wood curb; brick casing. 1575 feet. See log.
571	24.7	Apr. 22, 1936	B,H	D	Cement curb; brick casing, top to bottom.
572	28.0	May 23, 1936	B,H	--	No casing. Strong supply.
573	15.3	June 21, 1936	B,H	S	Wood curb; no casing.

Records of wells and springs in Gregg County--Continued

No.	Distance from Kilgore	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
574	3 $\frac{1}{4}$ miles east	Henry Wells	M. T. Flanagan	--	--	Spring	--	--
575	5 $\frac{1}{4}$ miles east	Eleanor Bradley	J. F. Graybill	--	1927	16-d	50	4.0
576	6 $\frac{1}{2}$ miles east	do.	G. E. Cunyus	--	1896	23-d	36	3.0
577	7 $\frac{1}{2}$ miles east	Henry Hoover	Pleasant Green Church	--	1917	23-d	48	2.5
578	6 $\frac{1}{4}$ miles east	do.	S. Wade	S. Wade	1910	24-d	--	4.5
580	do.	do.	G. E. Cunyus	--	--	15-d	--	2.0
581	5 $\frac{1}{2}$ miles east	Eleanor Bradley	Dave Holland	Rufus Hutchins	1928	23-d	--	2.8
582	5 $\frac{1}{2}$ miles east	do.	Mrs. Freney Hutchins	--	1920	26-d	36	2.5
583	6 miles east	do.	Fannie Dunn	Haywood Ervin	1928	13-d	36	3.0
584	6 $\frac{1}{4}$ miles east	Henry Hoover	Silas Mitchell	--	1856	25-d	--	2.0
585	7 $\frac{1}{2}$ miles east	do.	J. McWhorter	--	1933	22-d	--	2.0
586	7 $\frac{1}{4}$ miles east	do.	-- Whittington	--	--	Spring	--	--

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
601	2 $\frac{1}{2}$ miles southeast	W. F. Sanders	E. A. Latham	Will Getter	--	18-d	36	2.7
607	3 miles south	Avery R. Johnson	United Gas Public Service Co.	Layne-Texas Co.	1931	379	6	--
608	3 $\frac{1}{2}$ miles southeast	do.	Carrie Pitman	George Yarbrough	1910	28-d	--	2.5
609	3 $\frac{1}{2}$ miles south	Samuel Jackson	F. T. Rea	F. E. R. A.	1934	18-d	--	2.1
611	4 $\frac{1}{2}$ miles southeast	Felix G. Adams	Alonzo Henry	Dixie Clayborne	--	18-d	--	--
612	5 miles southeast	Isaac Ferguson	Joe Haynes	Joe Haynes	1924	23-d	36	2.0
617	7 $\frac{1}{4}$ miles south	Frost Thorn	L. A. Bullinger	--	1926	16-d	74	3.0
619	7 $\frac{1}{2}$ miles south	do.	W. G. Mitchell	Zac Fall	1925	19-d	36	2.0
620	do.	do.	Frank Ray	F. E. R. A.	1934	19-d	36	3.0
621	7 miles south	do.	J. E. Jones	Maddie Jones	--	18.5	36	3.4
622	6 $\frac{1}{2}$ miles southeast	John Matthews	N. D. Williams	Humble Oil & Ref. Co.	1932	--	--	--

G. H. Shafer and W. M. Lyle, Project Superintendents

No.	Water Level		Pump Use		Remarks
	Depth below measuring point (feet)	Date of measurement	and of power c/	of water d/	
574	Flows	May 22, 1936	None	D,S	Estimated flow: 3 gallons a minute from sandstone. Failed, summer of 1921.
575	15.2	May 23, 1936	B,H	D,S	No casing.
576	13.8	do.	C,G,I	D,S	Brick curb; no casing. Strong well.
577	12.9	do.	B,H	D,S	G. Harper farm. Brick curb; brick casing at top. Never fails.
578	20.1	May 25, 1936	--	D,S	Wood curb; no casing. Never fails.
580	12.7	do.	B,H	D,S	Wood curb. Never fails.
581	23.3	May 21, 1936	B,H	D,S	Do.
582	24.4	May 25, 1936	B,H	D	Wood curb; no casing. Nearly fails in drought.
583	10.7	do.	B,H	--	Wood curb; no casing.
584	22.5	do.	B,H	D,S	Wood curb; no casing. Never fails.
585	20.5	do.	B,H	D,S	E. Burton farm. Wood curb; no casing. Never fails.
586	Flows	do.	B,H	S	Estimated flow: 20 gallons a minute from 10 openings. Temperature 73° F.

No.	Water Level		Pump Use		Remarks
	Depth below measuring point (feet)	Date of measurement	and of power c/	of water d/	
601	16.5	June 30, 1936	B,H	D,S	Brick casing.
607	--	--	A,-,-	OF	C. C. Gray farm. Reported 2,500 gallons a day used since well completed. See log.
608	17.5	June 24, 1936	B,H	D,S	Brick curb.
609	13.2	do.	B,H	D	Wood curb; no casing. Never fails.
611	16.9	do.	B,H	D,S	
612	24.6	do.	B,H	D,S	Wood curb; wood casing at top.
617	11.6	May 22, 1936	B,H	D,S	Rock curb.
619	20.0	May 23, 1936	B,H	N	Wood curb; no casing.
620	18.5	June 25, 1936	B,H	D,S	Wood curb; wood casing, top to bottom.
621	18.1	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Strong supply.
622	Flows	--	None	--	Estimated flow: 10 gallons a minute through 2 inch tubing.

Records of wells and springs in Gregg County--Continued

No.	Distance from Longview	Survey	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)	Height of measuring point above ground (ft.) b/
624	7 $\frac{1}{2}$ miles south	Frost Thorn	Jim Jones	Jim Jones	1915	19-d	36	2.2
625	8 $\frac{1}{2}$ miles southeast	John Matthews	Jeff Sanders	--	--	29-d	36	2.6
626	8 miles south	do.	Charlie Jones	C. Sanders	--	19-d	36	3.6
629	9 miles southeast	do.	Zed Garrison	--	1914	15-d	--	--
630	9 miles south	Frost Thorn	Louis C. Burton	-- Sanders	1906	25-d	36	3.0
631	9 $\frac{1}{2}$ miles south	do.	J. G. Acker	J. G. Acker	1911	18-d	36	--
632	9 $\frac{1}{2}$ miles southeast	Francisco Castros	C. M. Gordon	C. M. Gordon	1921	21-d	36	2.6
634	do.	Dinsmore Simpson	Joe Nelson	--	1916	19-d	--	3.5
635	10 $\frac{1}{2}$ miles southeast	do.	H. G. Lucas	--	--	24-d	36	3.4
636	11 miles southeast	Isaac Leo	T. B. Stinchcomb	Morcells Johnson	1936	--	--	2.9
637	11 $\frac{1}{2}$ miles southeast	John Walling	Elizabeth Flanagan	Lewis Lary	1936	27-d	--	2.5
638	12 $\frac{1}{2}$ miles southeast	do.	County Road	--	--	Spring	--	--

a/ All wells are bored or drilled unless dug well is indicated by d under "Depth."

b/ Measuring point was usually top of casing, top of pump base, or top of well curb.

c/ T, turbine; A, air-lift; Gl, gas lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; Ng, natural gas; S, steam; W, windmill; H, hand, number indicates horsepower.

G. H. Shafer and W. H. Lyle, Project Superintendents

No.	Water Level		Pump and power c/	Use of water d/	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment			
624	12.5	June 25, 1936	B,H	D,S	Wood curb; no casing.
625	20.5	May 22, 1936	B,H	D,S	Rock curb.
626	20.7	June 25, 1936	B,H	D,S	Wood curb; wood casing to bottom. Strong supply.
629	--	--	B,H	D	Never fails.
630	15.4	May 26, 1936	B,H	D,S	Wood curb; rock casing at top. Reported unfit for washing.
631	--	--	B,H	--	Wood curb; rock casing.
632	22.6	May 22, 1936	B,H	D,S	Wood curb; no casing. Never fails.
634	15.2	do.	B,H	D,S	Do.
635	23.1	do.	B,H	D,S	Never fails.
636	46.1	do.	B,H	--	Wood curb.
637	27.0	do.	B,H	D,S	Wood curb; wood casing at top. Never fails.
638	Flows	do.	None	D,S	Estimated flow: 2 gallons a minute from sandstone. Never fails.

d/ I, irrigation; Ind, industrial; Of, oil field; P, public; D, domestic; S, stock; N, not used.

e/ Water level reported.

f/ No water sample collected for analysis.

Table of Drillers' Logs, Gregg County, Texas

Driller's log of well 50.		
Tidewater Oil Co., Marsa Mann lease, 7 $\frac{1}{4}$ miles north of Longview.		
	Thickness (feet)	Depth (feet)
Sandy soil- - - - -	3	3
Hard red clay and rock- - - -	6	9
Yellow sandy clay- - - - -	35	44
Yellow sand and streaks of clay- - - - -	45	89
Dark brown sand- - - - -	9	98
Rock- - - - -	1	99
Brown sand, streaks of shale and boulders- - - - -	39	138
Green sandy shale - - - - -	24	162
Brown sandy shale and boulders	33	195
Rock - - - - -	1	196
Sandy shale- - - - -	37	233
Shale and streaks of sand - -	15	248
Rock- - - - -	1	249
Shale and boulders, streaks of sand- - - - -	28	277
Hard shale- - - - -	26	303
Gray sand- - - - -	12	315
Gray sandy shale- - - - -	15	330
Gray sand- - - - -	12	342
Sandy shale- - - - -	22	364
Sandy streaks of shale- - -	15	379
Fine sand, streaks of shale -	40	419
Sand and lignite- - - - -	7	426
Sandy shale- - - - -	21	447
Gray sand, good- - - - -	20	467
Shale- - - - -	7	474
Gray sand, good - - - - -	28	502
Sand and shale- - - - -	12	514
Shale and boulders- - - - -	27	541
Sandy shale and boulders- -	38	579
Shale- - - - -	10	589
Sand and gravel - - - - -	10	599
Sandy shale- - - - -	44	643
Sand and shale- - - - -	22	665
Sand, streaks of shale- - -	30	695
Gray sand- - - - -	31	726
Rock- - - - -	2	728
Sand - - - - -	40	768
Boulders- - - - -	3	771
Rock- - - - -	3	774
Gray sand - - - - -	38	812
Set 812 feet of 6 5/8 inch casing and screen as follows; blank, 0-452; screen 452-497; blank, 497-581; screen, 581-604; blank, 604-702; screen, 702-746; blank, 746-768; screen, 768-789; and blank, 789-811 feet with nipple and back-pressure valve.		

Driller's log of well 60.		
Stanolind Oil and Gas Co. G. F. Meadows lease, 7 miles northwest of Longview.		
Surface sand and gravel- - -	28	28

Driller's log of well 60--Continued		
	Thickness (feet)	Depth (feet)
Sand and streaks of shale -	134	162
Sand- - - - -	10	172
Lime- - - - -	8	180
Sand and shale - - - - -	32	212
Sand and shells - - - - -	33	245
Dry sand- - - - -	22	267
Shale- - - - -	18	285
Shale and lime shells- - -	11	296
Gumbo- - - - -	4	300
Shell- - - - -	2	302
Hard sand- - - - -	18	320
Shell- - - - -	3	323
Packed sand- - - - -	37	360
Sand- - - - -	22	382
Gumbo- - - - -	4	386
Sand- - - - -	104	470
Rock- - - - -	3	473
Sticky shale- - - - -	27	500
Rock- - - - -	4	504
Shale- - - - -	85	589
Sand, screened- - - - -	45	634
Shale- - - - -	67	701
Sand screened- - - - -	31	732
L.S.M. REPORT: 732 feet of 4 inch tubing; 15 $\frac{1}{2}$ feet of 13 inch and 614 feet of 6 5/8 inch casing with 113 feet of perforated liner at bottom.		

Driller's log of well 62.		
Humble Oil and Refining Company, G. W. Willingham lease, Willow Springs. 7 miles northwest of Longview.		
Clay- - - - -	18	18
Fair sand - - - - -	28	46
Hard brown sand - - - - -	25	71
Sandy shale, boulders - - -	59	130
Brown sand - - - - -	36	166
Shale and boulders- - - - -	13	179
Coarse white sand- - - - -	16	195
Sandy shale and boulders- -	88	283
Shale and lignite- - - - -	55	338
Black and gray sand- - - -	45	383
Sandy shale- - - - -	7	390
CASING REPORT: 22 feet of 20" gravel- ing pit and 10 inch to bottom with screens at 50-72, 153-175, 184-195, and 337-381 feet. Static head, 105 feet; pumping head, 174 feet producing 108 gallons a minute.		

Driller's log of well 84a.		
Judson Grove School; 5 $\frac{1}{4}$ miles north of Longview.		
Ref bed- - - - -	32	32
Water sand - - - - -	6	38
Blue shale - - - - -	97	135
(Continued on next page)		

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 34a--Continued

	Thickness (feet)	Depth (feet)
Water sand- - - - -	5	140
Blue shale- - - - -	8	148
Line shell - - - - -	2	150
Brown shale - - - - -	60	210
Water sand- - - - -	8	218
Brown shale - - - - -	102	320
Water sand- - - - -	6	326
Blue shale- - - - -	46	372
Water Sand- - - - -	12	384
Blue shale- - - - -	10	394

Drillers log of well 112
Magnolia Petroleum Company, T. E. Jones
lease, Willow Springs, Texas; 7 miles
northwest of Longview.

Sandy clay- - - - -	15	15
Blue clay- - - - -	18	33
Muddy sand - - - - -	54	87
Shale and boulders- - - - -	16	103
Sand with layers of shale - - - - -	26	129
Shale and boulders- - - - -	15	144
Brown sand- - - - -	51	195
Shale and boulders- - - - -	123	318
Shale- - - - -	13	331
Fine gray sand- - - - -	60	391
Sandy shale- - - - -	31	422
Shale and boulders- - - - -	77	499
Good sand - - - - -	22	521
Shale- - - - -	17	538
Good sand - - - - -	30	568
Sandy shale - - - - -	36	604
Fair sand- - - - -	19	623
Shale- - - - -	31	654
Shale and lignite- - - - -	98	752
Sand, one break- - - - -	49	801
Shale- - - - -	10	811
8 1/2 inch casing with screens at 497-518, 544-565, 602-620, 747-789.		

Drillers log of well 118.
Stanolind Oil Co., S. M. McKinley lease,
5 1/2 miles northwest of Longview.

Surface clay- - - - -	36	36
Sand and boulders- - - - -	63	99
Shale and boulders - - - - -	5	104
Rock- - - - -	1	105
Sand and shale - - - - -	17	122
Rock- - - - -	2	124
Shale and boulders- - - - -	111	235
Sand and shale- - - - -	115	350
Water sand- - - - -	55	405
Shale- - - - -	5	410
Set 8 1/2 inch casing, slotted with torch at 322-402 feet.		

Driller's log of well 110
Sun Oil Co., McKinney lease; 6 miles
northwest of Longview.

	Thickness (feet)	Depth (feet)
Sandy soil- - - - -	1	1
Clay- - - - -	10	11
Sand- - - - -	10	21
Sand and clay - - - - -	6	27
Sand- - - - -	30	57
Packed sand - - - - -	19	76
Sand and boulders - - - - -	10	85
Rock- - - - -	1	96
Sand and boulders - - - - -	2	98
Shale - - - - -	7	105
Sand and boulders - - - - -	13	118
Sand and shale- - - - -	6	124
Rock- - - - -	1	125
Sand and boulders - - - - -	3	128
Rock- - - - -	2	130
Sand and shale- - - - -	14	144
Rock- - - - -	2	146
Sand and shale- - - - -	12	158
Gumbo - - - - -	4	162
Sand- - - - -	7	169
Sand and shale- - - - -	11	180
Sticky shale- - - - -	15	195
Lignite (pure)- - - - -	7	202
Water sand- - - - -	4	206
Hard packed sand- - - - -	5	211
Gumbo- - - - -	14	225
Sand and shale- - - - -	9	234
Sand and lignite- - - - -	4	238
Gumbo- - - - -	2	240
Shale- - - - -	5	245
Sand- - - - -	16	261
Sand and lignite- - - - -	9	270
Sand- - - - -	5	275
Sand and lignite- - - - -	14	289
Packed sand - - - - -	16	305
Sticky shale- - - - -	9	314
Sand and shale- - - - -	2	316
Sand rock- - - - -	3	319
Gumbo- - - - -	3	322
Sand and shale- - - - -	4	326
Sand rock- - - - -	2	328
Sand- - - - -	1	329
Hard rock- - - - -	2	331
Sand and lignite - - - - -	15	346
Packed sand - - - - -	2	348
Sand and boulders - - - - -	14	362
Packed sand- - - - -	4	366
Sand and boulders - - - - -	9	375
Packed sand - - - - -	7	382
Sand and lignite- - - - -	2	391
Sand- - - - -	13	404

(Continued on next page)

Table of Drillers' Logs of Greg. County--Continued

Driller's log of well 110--Continued

	Thickness (feet)	Depth (feet)
Sand and lignite- - - - -	8	412
Sticky shale- - - - -	7	419
Sand and lignite- - - - -	12	431
Rock- - - - -	1	432
Sand and shale- - - - -	15	447
Sand- - - - -	3	450
Rock- - - - -	2	452
Packed sand - - - - -	2	454
Sand and shale- - - - -	17	471
Rock- - - - -	1	472
Packed sand - - - - -	8	480
Sand and shale- - - - -	16	496
Shale- - - - -	14	510
Sand and lignite- - - - -	9	519
Sandy shale- - - - -	12	531
Rock- - - - -	4	535
Sand and lignite- - - - -	8	543
Shale - - - - -	13	556
Sandy shale - - - - -	25	581
Sticky shale- - - - -	3	584
Sand- - - - -	5	589
Gumbo - - - - -	6	595
Packed sand - - - - -	4	599
Sand and shale- - - - -	10	609
Sand- - - - -	9	618
Sand and shale- - - - -	4	622
Hard sand- - - - -	4	626
Gumbo- - - - -	5	631
Shale- - - - -	6	637
Sand and lignite - - - - -	4	641
Shale- - - - -	8	649
Sand- - - - -	8	657
Gumbo - - - - -	12	669
Sand- - - - -	5	674
Gumbo - - - - -	7	681
Sand and lignite- - - - -	10	691
Sand and boulders- - - - -	105	796
Sand and lignite- - - - -	10	806
Sand and boulders - - - - -	16	822
Sand and shale- - - - -	14	836
Set 837 feet of 8 $\frac{1}{2}$ inch casing.		

Driller's log of well 123a

Tidal Oil Co., J. J. Castleberry lease.		
4 $\frac{3}{4}$ miles northwest of Longview.		
Sand and clay- - - - -	108	108
Rock- - - - -	1	109
Sand and shale - - - - -	96	205
Water sand- - - - -	45	250
Set 233 feet of 8 $\frac{1}{2}$ inch casing with		
21 feet of 8 $\frac{1}{2}$ inch screen at bottom.		

Driller's log of well 124

C. C. Clemens "B" lease; 5 $\frac{1}{2}$ miles northwest of Longview.

Driller's log of well 124--Continued

	Thickness (feet)	Depth (feet)
Shale- - - - -	40	40
Gravel and sand- - - - -	5	45
Sandy shale- - - - -	55	100
Water sand- - - - -	35	135
Sandy shale- - - - -	55	190
Gumbo- - - - -	65	255
Water sand - - - - -	20	275
Gumbo- - - - -	190	460
Sand- - - - -	20	480
Gumbo - - - - -	50	530
Lime shale- - - - -	7	537
Gumbo- - - - -	23	560
Sandy shale- - - - -	10	570
Water sand- - - - -	12	582
Shale- - - - -	3	585
Water sand- - - - -	30	615
Gumbo- - - - -	10	625
Sandy shale- - - - -	25	650
5 3-16 inch casing, perforated at		
103-128, 250-270, and 585-615 feet.		

Driller's log of well 150

Arkansas Fuel Co., P. D. Harrison lease.		
4 $\frac{1}{2}$ miles northwest of Longview.		
Surface sand and shale- - -	160	160
Water sand- - - - -	45	205
Shale- - - - -	155	360
Broken sand - - - - -	50	410
Shale- - - - -	75	485
Water sand - - - - -	16	501
Set 6 $\frac{1}{2}$ inch casing; perforated at		
170-196, 380-407, and 474-501 feet.		

Driller's log of well 152

Arkansas Fuel Co. F. K. Lathrop lease.		
5 miles northwest of Longview.		
Surface sand and clay- - -	70	70
Sandy shale and boulders -	373	443
Sandy shale and boulders -	106	549
Sand and shale- - - - -	156	705
Sand- - - - -	67	772
Set 6 inch casing at 549 feet with 249		
feet of 4 $\frac{1}{2}$ inch liner. Bottom 200 feet was		
slotted. 520 feet of 4 inch tubing and		
345 feet of 1 inch air line.		

Driller's log of well 153

Arkansas Fuel Co. F. K. Lathrop lease.		
5 miles northwest of Longview.		
Shale- - - - -	175	175
Sand and shale- - - - -	197	372
Set and cemented 172 feet of 8 $\frac{1}{2}$ casing		
with 15 sacks of cement.		

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 192a
2 $\frac{3}{4}$ miles west of Longview, Magnolia Pipe
Line Co., W. E. Jones lease at Willow
Springs.

	Thickness (feet)	Depth (feet)
Sandy clay- - - - -	15	15
Blue clay- - - - -	18	33
Muddy sand- - - - -	54	87
Shale and boulders- - - - -	16	103
Sand and layers of shale- - - - -	26	129
Shale and boulders- - - - -	15	144
Brown sand- - - - -	51	195
Shale and boulders- - - - -	123	318
Shale- - - - -	13	331
Fine sand- - - - -	60	391
Sandy shale- - - - -	31	422
Shale and boulders- - - - -	77	499
Good sand- - - - -	22	521
Shale- - - - -	17	538
Good sand- - - - -	30	568
Sandy shale- - - - -	36	604
Fair sand- - - - -	19	623
Shale- - - - -	31	654
Shale and lignite- - - - -	98	752
Sand- - - - -	49	801
Casing perforated at 499-521, 538-568, 604-623, and 752-801 feet.		

Driller's log of well 194
Stanolind Oil Co. H. M. Lawrence lease.
3 $\frac{1}{2}$ miles west of Longview.

Dry sand, surface clay- - - - -	20	20
Water gravel and seep sand- - - - -	3	23
Blue shale- - - - -	12	35
Water sand- - - - -	5	40
Blue shale- - - - -	45	85
Black sandy shale- - - - -	10	95
Blue shale- - - - -	75	170
Water sand- - - - -	3	173
Blue shale- - - - -	47	200
Brown shale- - - - -	14	214
Sand- - - - -	4	218
Blue shale- - - - -	12	230
Water sand- - - - -	10	240
Blue shale- - - - -	50	290
Water sand- - - - -	25	315
Brown shale- - - - -	35	350
Water sand- - - - -	5	355
Blue shale- - - - -	5	360
Sand- - - - -	10	370
Blue shale- - - - -	25	395
Brown sand- - - - -	25	420
Blue shale- - - - -	55	475
Water sand- - - - -	15	490

Driller's log of well 194--Continued

	Thickness (feet)	Depth (feet)
Blue shale- - - - -	40	530
Blue shale- - - - -	33	563
Brown shale- - - - -	5	568
Blue shale- - - - -	12	580
Brown shale- - - - -	3	583
Water sand- - - - -	52	635
No casing record available.		

Driller's log of well 194a
Stanolind Pipe Line Co., H. M. Lawrence
lease. 3 $\frac{1}{2}$ miles west of Longview.

Sandy soil- - - - -	3	3
Red sandy shale- - - - -	7	10
Yellow sandy clay- - - - -	5	15
Blue sandy shale- - - - -	22	37
Rock- - - - -	1	38
Green sandy shale and boulders- - - - -	23	61
Rock- - - - -	1	62
Green sandy shale and boulders- - - - -	38	100
Gray sandy shale, streaks of lignite- - - - -	55	155
Shale and streaks of lignite- - - - -	105	260
Soft brown shale- - - - -	15	275
Fine gray sandy shale- - - - -	13	288
Gray sand- - - - -	44	332
CASING RECORD: 288 feet of 10 inch, 285 feet of 6 inch, and 45 feet of 6 inch screen.		

Driller's log of well 202a
Stanolind Oil Co., O. Wilhite lease.
5 $\frac{3}{4}$ miles northeast of Gladewater.

Surface sand- - - - -	3	3
Yellow clay- - - - -	4	7
Surface sand- - - - -	13	20
Sand (wet)- - - - -	6	26
Shale- - - - -	9	35
Sand (wet)- - - - -	20	55
Shale- - - - -	30	85
Shale and boulders - - - - -	15	100
Shale - - - - -	22	122
Coarse sand- - - - -	4	126
Broken sand and shells (dry)- - - - -	27	153
Shale- - - - -	15	168
Sand (dry)- - - - -	3	171
Sand and boulders- - - - -	7	178
Sand (wet)- - - - -	19	197
Hard sand- - - - -	5	202
Sandy shale- - - - -	36	238

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 202a--Continued		
	Thickness	Depth
	(feet)	(feet)
Sand (wet) - - - - -	24	262
Sand - - - - -	16	278
Sand and boulders - - - - -	72	350
Shale - - - - -	25	375
Shale - - - - -	99	474
Sandy shale - - - - -	10	484
Coal - - - - -	1	485
Sand (wet) - - - - -	15	500
Sand and shale - - - - -	15	515
Shale - - - - -	33	548
Sandy shale - - - - -	37	585
Shell - - - - -	2	587
Sandy shale - - - - -	12	599
Hard sand - - - - -	41	640
Shale - - - - -	42	682
Sand (wet) - - - - -	30	712
Sand, boulders, and shale - - - - -	25	737
Sand (wet) - - - - -	46	783
Shale - - - - -	4	787
Set 830 feet of 8 $\frac{1}{2}$ inch casings, perforated at all sands. 741 feet of 4 inch tubing and 725 feet of 1 inch air line.		

Driller's log of well 202b		
Tidal Oil Co., W. E. Jones lease. 7 miles northeast of Gladewater.		
Red clay - - - - -	25	25
Sand - - - - -	31	56
Rock - - - - -	1	57
Sand - - - - -	74	131
Rock - - - - -	2	133
Sand - - - - -	11	144
Rock - - - - -	2	146
Blue sand - - - - -	18	164
Rock - - - - -	1	165
Sand - - - - -	19	184
Rock - - - - -	2	186
Packed sand - - - - -	13	199
Rock - - - - -	3	202
Sand - - - - -	168	370
Rock - - - - -	4	374
Packed sand - - - - -	35	409
Sand rock - - - - -	5	414
Packed sand - - - - -	33	447
Sand rock - - - - -	5	452
Lignite and shell rock - - - - -	3	455
Shale - - - - -	29	484
Sand - - - - -	36	520
Hard rock - - - - -	4	524
Sandy shale - - - - -	16	540
Sand - - - - -	18	558
Sand rock - - - - -	6	564
Hard lime - - - - -	88	652
Sandy shale - - - - -	38	690

Driller's log of well 202b--Continued		
	Thickness	Depth
	(feet)	(feet)
Gumbo - - - - -	90	780
Sand - - - - -	12	792
Gumbo - - - - -	28	820
Hard sandy shale - - - - -	13	833
Sand - - - - -	46	879
Rock - - - - -	4	883
Sand - - - - -	9	893
Hard rock - - - - -	2	895
Sand - - - - -	4	899
Rock - - - - -	2	901
Sand - - - - -	8	909
Rock - - - - -	4	913
Fine sand - - - - -	9	922
Water sand - - - - -	20	942
CASING RECORD: 805 feet of 8 $\frac{1}{2}$ inch, 150 feet of 6 inch, and 87 feet of 6 inch perforated. 417 feet of 4 inch tubing and 247 feet of 1 $\frac{1}{2}$ inch air line.		

Driller's log of well 206		
Magnolia Petroleum Co., H. Hampton Farm. 1 $\frac{1}{2}$ miles northeast of Gladewater.		
Soil - - - - -	2	2
Sandy clay - - - - -	18	20
White sand - - - - -	26	46
Brown sandy clay - - - - -	22	68
Sandy clay - - - - -	19	87
Shale and boulders - - - - -	26	113
Dark sandy shale - - - - -	32	145
Sand and layers of shale - - - - -	69	214
Rock - - - - -	1	215
Sandy shale - - - - -	18	233
Shale and boulders - - - - -	15	248
Gray sand and shale - - - - -	64	312
Hard sandy shale - - - - -	22	334
Sandy shale and lignite - - - - -	23	357
Sandy shale - - - - -	44	401
Sandy shale and lignite - - - - -	168	569
Fine sand and shale - - - - -	26	595
Sandy shale and lignite - - - - -	54	649
Fine sand - - - - -	10	659
Sandy shale - - - - -	82	731
Fine sand - - - - -	17	748
Shale and lignite - - - - -	19	767
Shale - - - - -	14	781
Lignite and gray sand - - - - -	102	883
White sand - - - - -	59	942
Set 114 feet of screen. 502 feet of 1 $\frac{1}{2}$ inch air line. No casing information available.		

Driller's log of well 211		
Humble Oil Co., W. W. Holland lease, 2 miles northeast of Gladewater.		
Clay and rock - - - - -	15	15
Sand - - - - -	60	75
Shale and boulders - - - - -	98	173

Table of Drillers' Logs of Gragg County--Continued

Driller's log of well 214--Continued

	Thickness (feet)	Depth (feet)
Fine white sand- - - - -	18	191
Shale and boulders - - - - -	104	295
Fine sand- - - - -	23	318
Shale and lignite- - - - -	6	324
Sand- - - - -	26	350
Hard shale and lignite - - - -	90	440
Sand- - - - -	22	462
Shale and lignite - - - - -	33	495
Record lost- - - - -	35	530
Shale- - - - -	8	538
Sand with layers of shale- - -	15	553
Shale and lignite- - - - -	24	607
Sandy shale- - - - -	54	661
White sand- - - - -	72	733
Shale and layers of sand - -	52	785
Shale and sand- - - - -	10	795
Tough shale- - - - -	42	837
Sand- - - - -	12	849
Shale and boulders- - - - -	49	898
Shale- - - - -	48	946
Rock- - - - -	2	948
Sand- - - - -	4	952
Rock- - - - -	3	955
Shale and boulders - - - - -	39	994
Shale- - - - -	90	1084
No casing record available.		

Driller's log of well 216

Tidal Oil Co., J. H. Shepherd lease.
1½ miles northeast of Gladewater.

Shale and gravel- - - - -	26	26
Shale - - - - -	32	58
Hard sand- - - - -	9	67
Shale and boulders- - - - -	44	111
Shale- - - - -	39	150
Sandy shale and boulders- - -	60	210
Shale and boulders- - - - -	55	265
Shale- - - - -	66	331
Sand- - - - -	16	347
Shale- - - - -	15	362
Water sand- - - - -	12	374
Shale- - - - -	32	406
Sand and shale- - - - -	44	450
Shale- - - - -	245	695
Brown shale- - - - -	20	715
Soft sand- - - - -	15	730
Shale and gumbo- - - - -	55	785
Sand- - - - -	10	795
Gumbo- - - - -	8	803
Sand- - - - -	14	817
Water sand- - - - -	20	837
Shale- - - - -	4	841

CASING RECORD: 43 feet of 10 inch;
841 feet of 7 inch. 575 feet of 4 inch
tubing. Perforated casing at 817-837
feet.

Driller's log of well 224

J. F. Bowles, owner. 3 miles northeast
of Gladewater.

	Thickness (feet)	Depth (feet)
Surface sand and boulders- -	76	76
Shale and rocks- - - - -	45	121
Sand, last 8 feet broken - -	44	165
Shale- - - - -	60	225
Sand- - - - -	15	240
Shale and gumbo- - - - -	94	334
Sand- - - - -	6	340
Shale and gumbo- - - - -	66	406
Sand- - - - -	20	426
Shale- - - - -	4	430
Sand- - - - -	7	437
Shale- - - - -	9	446
No casing record available.		

Driller's log of well 228

Amerada Petroleum Co., M. Killingsworth
lease. 4½ miles east of Gladewater

Surface soil- - - - -	3	3
Sand- - - - -	25	28
Blue shale- - - - -	7	35
Gray shale- - - - -	15	50
Gumbo- - - - -	5	55
Sandy shale- - - - -	15	70
Brown shale- - - - -	15	85
Gray shale- - - - -	13	98
Water sand- - - - -	7	105
Gray shale- - - - -	10	115
Blue shale- - - - -	6	121
Brown shale- - - - -	25	146
Blue shale - - - - -	13	159
Lime- - - - -	1	160
Water sand- - - - -	10	170
Sand- - - - -	2	172
Brown shale- - - - -	24	196
Water sand- - - - -	52	248

CASING RECORD: 75 feet of 8 5/8 inch
and 232 feet of 7 inch, driven from 173
to 232 feet.

Driller's log of well 230

Barnsdall Oil Co., G. E. Adams lease # 1.
4½ miles east of Gladewater.

Record lost- - - - -	282	282
Soft sand- - - - -	28	310
Gray shale- - - - -	10	320
Gumbo- - - - -	14	334
Shale- - - - -	36	370
Sand- - - - -	10	380
Shale and gumbo- - - - -	153	533
Soft sand- - - - -	12	545
Gumbo- - - - -	11	555
Shells and shale- - - - -	15	570
Hard sand- - - - -	28	598

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 230--Continued		
	Thickness (feet)	Depth (feet)
Gumbo and shale- - - - -	32	630
Gumbo- - - - -	5	635
Sand - - - - -	9	644
Shale- - - - -	46	690
Sand and water - - - - -	22	712
Shale- - - - -	46	758
Water sand - - - - -	110	868
Shale- - - - -	20	888

Driller's log of well 251		
Empire Gas and Fuel Co., L. J. Rogers Lease. 2 $\frac{1}{2}$ miles southeast of Gladewater.		
Surface- - - - -	5	5
Red clay- - - - -	7	12
Sandy clay- - - - -	12	24
Sand- - - - -	5	29
Shale- - - - -	72	101
Shell rock- - - - -	1	102
Shale- - - - -	13	115
Sand- - - - -	73	188
Shale- - - - -	357	545
Hard sand- - - - -	5	550
Sandy shale- - - - -	20	570
Water sand- - - - -	81	651
Sandy shale - - - - -	16	667
Sand- - - - -	71	738
Sandy shale- - - - -	3	741
Sand- - - - -	4	745
CASING RECORD: 31 feet of 10 inch surface casing and 745 feet of 6 5/8 inch perfor- ated at 667-738 and 741-745 feet.		

Driller's log of well 252a		
Houston Oil Co., Burknight lease. 2 $\frac{1}{2}$ miles east of Gladewater.		
Soil- - - - -	5	5
Clay- - - - -	20	25
Water sand- - - - -	10	35
Blue shale- - - - -	40	75
Sandy shale- - - - -	150	225
Water sand- - - - -	25	250
Blue shale- - - - -	150	400
Water sand- - - - -	15	415
Sandy shale- - - - -	100	515
Water sand- - - - -	45	560
Blue shale- - - - -	10	570
Water sand- - - - -	51	621

Driller's log of well 254		
Magnolia Petroleum Company, Sautter Lease. 1 $\frac{3}{4}$ miles northeast of Gladewater.		
Sandy soil- - - - -	1	1
Red sandy clay- - - - -	9	10
Yellow sand and clay- - - - -	25	35
Dark sandy shale and boulders	51	86
Green sand- - - - -	10	96
Rock- - - - -	1	97

Driller's log of well 254--Continued		
	Thickness (feet)	Depth (feet)
Green sand- - - - -	13	110
Green sand and shale- - - - -	77	187
Hard sandy shale and lignite	10	197
White sand- - - - -	10	207
Hard sandy shale and lignite	20	227
Shale- - - - -	22	249
Sand and lignite - - - - -	13	262
Rock- - - - -	1	263
Sandy shale and lignite - - - -	24	287
Gray sand- - - - -	29	316
Sandy shale- - - - -	22	338
Fine dark sand- - - - -	62	400
Hard sandy shale- - - - -	13	413
Sand and lignite- - - - -	10	423
Hard sticky shale - - - - -	14	437
Shale and lignite- - - - -	8	445
Hard sandy shale and boulders- - - - -	42	487
Sandy shale and lignite - - - -	55	542
Boulders- - - - -	3	545
Rock- - - - -	4	549
Hard sandy shale and boulders- - - - -	32	581
Rock- - - - -	1	582
Hard sandy shale- - - - -	16	598
Sandy shale- - - - -	25	623
Hard shale- - - - -	15	638
Sandy shale- - - - -	14	652
Rock- - - - -	1	653
Hard sandy shale, lignite, and boulders - - - - -	101	754
Rock- - - - -	1	755
Sandy shale and lignite - - - -	35	790
Rock- - - - -	3	793
Sandy shale and boulders- - - -	55	848
Rock- - - - -	2	850
Hard shale and boulders - - - -	8	858
Sandy shale - - - - -	44	902
Hard shale- - - - -	17	919
Shale and lignite- - - - -	50	969
Hard sandy shale and boulders- - - - -	56	1025
Sandy shale- - - - -	53	1078
Set 505 feet of 8 inch casing with plug and back pressure valve and screens at 129-174, 195-205, 287-310, and 374-397 feet. Set 459 feet of 4 inch tubing with 440 feet of 1 $\frac{1}{2}$ inch air line. Driller reported static head as 78 feet below surface when well completed.		

Driller's log of well 255		
Amerada Petroleum Co., -Continental State Bank tract; 2 miles east of Gladewater.		
Sandy gravel- - - - -	10	10
Gumbo- - - - -	40	50

(Continued on next page)

Table of Drillers's Logs of Gregg County--Continued

Driller's log of well 255--Continued	
Thickness	Depth
(feet)	(feet)
Water sand- - - - -	10 60
Sandy shale- - - - -	45 105
Water sand- - - - -	20 125
Sandy shale- - - - -	75 200
Gumbo- - - - -	40 240
Shale- - - - -	20 260
Gumbo- - - - -	140 400
Lime- - - - -	5 405
Gumbo- - - - -	155 560
Sandy shale- - - - -	8 568
Gumbo- - - - -	22 590
Sandy shale- - - - -	8 598
Gumbo- - - - -	16 614
Sand- - - - -	10 624
Gumbo- - - - -	6 630
Water sand- - - - -	15 645
Sandy shale- - - - -	33 678
Water sand- - - - -	77 755
Gumbo- - - - -	20 775
CASING RECORD: 620 feet of 8 5/8 inch and 160 feet of 7 inch liner. 4 inch tubing parted in well.	

Driller's log of well 257
Jox-Hamon Oil Co., L. A. Rodden lease,
3/4 mile east of Gladewater.

Gray sand- - - - -	2 2
Rock- - - - -	4 6
Sandy yellow clay- - - - -	54 60
Water sand- - - - -	10 70
Blue shale- - - - -	10 80
Water sand- - - - -	10 90
Gumbo- - - - -	15 105
Water sand- - - - -	15 120
Blue shale- - - - -	80 200
Gumbo- - - - -	45 245
Gray and brown shale- - - - -	35 280
Gray sandy shale- - - - -	57 337
Lime shell- - - - -	2 339
Sandy shale- - - - -	26 365
Water sand- - - - -	20 385
Shale- - - - -	75 460
Sand- - - - -	10 470
Shale- - - - -	130 600
Sand- - - - -	10 610
Shale- - - - -	160 770
Water sand- - - - -	15 785
Lime and shell- - - - -	240 1025

Driller's log of well 258
City of Gladewater. Sam Kay lease,
1/2 mile northeast of Gladewater.

Soil- - - - -	2 2
Boulders- - - - -	1 3
Sandy clay- - - - -	9 12
Sand- - - - -	10 22

Driller's log of well 258--Continued	
Thickness	Depth
(feet)	(feet)
Red clay- - - - -	4 26
Sticky shale- - - - -	20 46
Fine sand- - - - -	15 61
Sticky shale- - - - -	34 95
Fine gray sand- - - - -	47 142
Boulders- - - - -	1 143
Shale and boulders- - - - -	21 167
Sandy shale- - - - -	16 183
Sticky lime- - - - -	80 263
Sandy lime and boulders - - - -	10 273
Fine sand and lignite- - - -	12 285
Shale and boulders- - - - -	9 293
Shale and streaks of sand - - -	34 327
Fine gray sand and shale- - -	54 381
Sticky shale- - - - -	70 451
Hard shale and lignite- - - -	20 471
Sticky shale- - - - -	8 479
Sandy shale- - - - -	14 493
Hard sticky lime- - - - -	67 560
Boulders- - - - -	3 563
Sticky shale- - - - -	14 577
Sand broken with shale- - - -	47 624
Sticky shale- - - - -	45 669
Sandy lime- - - - -	70 739
Fine gray sand- - - - -	10 749
Sticky lime- - - - -	22 771
Boulders- - - - -	1 772
Sand- - - - -	12 784
Sticky shale- - - - -	42 826
Set 294 feet of 12 1/2 inch casing and 6 5/8 inch to 630 feet with 40 feet lap up into 12 1/2 inch and screens at 516-533, 539-549, 555-575, 489-499 and 589-629 feet. Well was underreamed and 25 cubic yards of gravel used.	

Driller's log of well 259
City of Gladewater, owner. 1/2 mile
northwest of Gladewater.

Rotary to surface- - - - -	2 2
Soil- - - - -	2 4
Sandy clay- - - - -	5 9
Fine sand and streaks of clay- - - - -	80 89
Sand, green and white- - - -	36 125
Shale, lignite and boulders - - -	46 171
Coarse white sand- - - - -	22 193
Shale and lignite- - - - -	12 205
Good gray sand- - - - -	16 221
Lignite and shale- - - - -	41 262
Shale and boulders - - - - -	16 278
Fine, muddy gray sand- - - -	38 316
Gray sand, broken- - - - -	40 356
Shale and boulders - - - - -	42 398
Shale and streaks of sand- - -	50 448
Shale and sandy lime - - - -	83 531
Streaks of sand and shale- - -	44 575

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 259--Continued

	Thickness (feet)	Depth (feet)
Shale, lignite, and boulders-	19	594
Rock- - - - -	2	596
Shale, lignite and boulders -	73	669
Tough sticky shale- - - - -	31	700
Sandy lime- - - - -	25	725
Set 386 feet of 12 $\frac{1}{4}$ inch casing with screens at 173-195, 206-216, and 312-354 feet. Used 30 cubic yards of gravel for gravel wall.		

Driller's log of well 262

Morgan Utilities Co, A. White tract.
 $\frac{1}{4}$ miles south of Gladewater.

Soil- - - - -	5	3
Yellow clay- - - - -	15	20
Blue shale- - - - -	10	30
Water sand- - - - -	10	40
Blue shale- - - - -	30	70
Water sand- - - - -	10	80
Brown shale- - - - -	70	150
Blue shale- - - - -	130	280
Water sand- - - - -	10	290
Blue shale- - - - -	120	410
Brown shale- - - - -	10	420
Lime- - - - -	10	430
Blue shale- - - - -	100	530
Water sand- - - - -	20	550
Sandy shale- - - - -	75	625
Shale- - - - -	25	650
Lime- - - - -	5	655
Shale- - - - -	45	700
Water sand- - - - -	10	710

Driller's log of well 264

City of Gladewater well no. 3, Walker tract. $\frac{3}{4}$ mile west of Gladewater.

Clay- - - - -	13	13
Sand- - - - -	16	29
Sandy shale and lignite - - -	91	120
Shale- - - - -	35	155
Sand with lignite- - - - -	22	177
Shale- - - - -	29	206
Sandy shale- - - - -	20	226
Rock- - - - -	5	231
Sandy shale- - - - -	17	248
Rock- - - - -	1	249
Sandy shale- - - - -	31	280
Rock- - - - -	1	281
Shale- - - - -	152	433
Shale and boulders- - - - -	40	483
Sand with layers of shale - -	20	503
Sandy shale and lignite - - -	57	560
Set 139 feet of 10 inch casing swaged to 8 inch casing extending to 213 feet, slotted at 41-98, 140-162, and 191-211 feet.		

Driller's log of well 265

Sinclair Prairie Oil Co., T. H. York lease. $\frac{1}{4}$ mile southwest of Gladewater.

	Thickness (feet)	Depth (feet)
Soil- - - - -	3	3
Sand- - - - -	19	22
Quicksand- - - - -	13	35
Blue shale- - - - -	50	85
White sand- - - - -	25	110
Lime- - - - -	8	118
Gray shale- - - - -	62	130
Brown shale- - - - -	5	135
Sand- - - - -	15	200
Brown shale- - - - -	10	210
Blue shale- - - - -	35	245
Water sand- - - - -	20	265
Brown shale- - - - -	20	285
Gray shale- - - - -	40	325
Brown shale- - - - -	25	350
Water sand- - - - -	10	360
Brown shale- - - - -	80	440
Water sand- - - - -	40	480
Shale- - - - -	135	615
Water sand- - - - -	25	640
Shale- - - - -	20	660
Water sand- - - - -	30	690
Blue shale- - - - -	22	712
Broken sand- - - - -	10	722
Blue shale- - - - -	53	775
Water sand- - - - -	22	797
Broken sand- - - - -	6	803
Blue shale- - - - -	4	807
Set 42 feet of 12 $\frac{1}{4}$ inch casing, 777 feet of 8 $\frac{1}{4}$ inch, 509 feet of 4 inch and 417 feet of 1 inch.		

Driller's log of well 271a

Sinclair Prairie Oil Co., J. T. Aiken lease, 4 miles east of Gladewater.

Surface clay and sand- - -	80	80
Rock- - - - -	3	83
Shale and boulders- - - -	46	129
Sand- - - - -	47	176
Gumbo and boulders- - - -	115	291
Fine packed sand- - - - -	51	342
Shale with streaks of lignite and sand- - - -	91	433
Rock- - - - -	13	446
Water sand- - - - -	75	521
Gumbo and boulders - - - -	131	672
Hard sand- - - - -	19	691
Rock- - - - -	8	699
Gumbo and boulders- - - -	46	745
Sand rock- - - - -	9	754
Gumbo and boulders - - - -	18	772
Sand- - - - -	51	823
Water sand- - - - -	62	885

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Table of Drillers' Logs of Grant County--Continued

Driller's log of well 271a--Continued
CASING RECORD: 19 feet of 12 $\frac{1}{2}$ inch, 750 feet of 8 $\frac{1}{2}$ inch, and 200 feet of 6 5/8 inch. Set 574 feet of 4 inch tubing and 406 feet of 1 inch air line.

Driller's log of well 272
Sun Oil Co., A. Foote lease. 3 $\frac{3}{4}$ miles east of Gladewater.

	Thickness (feet)	Depth (feet)
Surface--	-20	20
Hard sand--	-5	25
Dark gumbo--	-25	50
Blue shale--	-20	70
Sand and drillers water--	-5	75
Dark shale--	-25	100
Dark shale--	-5	105
Shale--	-31	136
Fine sand, alum water--	-4	140
Dark shale--	-30	170
Sandy shale--	-11	181
Blue shale--	-10	191
Shale--	-49	240
Dry sand--	-20	260
Sandy shale--	-40	300
Brown gravel with water--	-4	304
Sandy shale--	-51	355
Water sand--	-21	376
No casing record available.		

Driller's log of 272a
Sun Oil Co., A. Foote lease. 3 $\frac{3}{4}$ miles east of Gladewater.

Clay--	-2	2
Sand--	-3	5
Clay--	-5	10
Sand--	-10	20
Clay--	-40	60
Water sand--	-10	70
Volcanic ash--	-20	90
Blue shale--	-82	172
Shell rock--	-2	174
Blue shale--	-12	186
Shell rock--	-4	190
Gumbo--	-15	205
Volcanic ash--	-25	230
Blue shale--	-65	295
Sandy shale--	-5	300
Gumbo--	-25	325
Blue shale--	-75	400
Shell rock--	-2	402
Blue shale--	-38	440
Gumbo--	-45	485
Blue shale--	-315	800
Water sand--	-46	846
Blue shale--	-18	864
Water sand--	-81	905
CASING RECORD: 690 feet of 8 5/8 inch, and 301 feet of 7 inch liner, with bottom 84 feet perforated.		

Driller's log of well 274
Amerada Petroleum Co. Well No. 3, W. E. Bumpus farm. 4 $\frac{1}{4}$ miles east of Gladewater
Thickness Depth
(feet) (feet)

Clay and rock--	-48	48
Sandy shale and rock--	-90	138
Sand and gumbo--	-44	182
Sandy shale and rock--	-22	204
Shale and rock--	-19	223
Gumbo and sand--	-47	270
Shale and gumbo--	-24	294
Rock, water sand and rock--	-46	340
Gumbo--	-15	355
Loose water sand--	-25	380
Hard shale--	-5	385
Lignite--	-4	389
Sand--	-7	396
Lignite--	-4	400
Sand--	-4	404
CASING RECORD; 8 5/8 inch set and cemented 341 feet, with 45 feet of 7 inch blank liner and 7 inch screen set at 335-382 feet. Packer set at 335 feet.		

Driller's log of well 274a
Sinclair Oil and Gas Co., Mattie Moncrief lease. 4 $\frac{1}{4}$ miles east of Gladewater.

Clay--	-22	22
Shale and boulders--	-57	79
Green sand--	-20	99
Shale and boulders--	-11	110
Brown muddy sand--	-22	132
Sand--	-91	223
Shale--	-10	233
Fair sand--	-38	271
Shale, boulders, lignite--	-81	352
Sand--	-23	375
Hard shale--	-46	421
Sand--	-23	444
Hard shale--	-12	456
Fine gray sand--	-39	495
Shale--	-22	517
Sand--	-110	627

CASING RECORD; 517 feet of 12 $\frac{1}{2}$ inch, 258 feet of 6 5/8 inch set at 515 feet, and 6 5/8 inch set at 515 feet, and 6 5/8 inch screen from 515-627 feet.

Driller's log of well 275
Stanolind Oil Co., L. E. Pearsons lease. 5 $\frac{1}{4}$ miles east of Gladewater.

Surface--	-3	3
Red clay--	-8	11
Sandy clay--	-9	20
Sand--	-3	23
Sandy shale--	-24	47
Sand--	-7	54
Shale--	-13	67
Sand--	-1	68

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 275--Continued

	Thickness (feet)	Depth (feet)
Sand and shale- - - - -	14	82
Lime- - - - -	1	83
Sand- - - - -	11	94
Lime- - - - -	1	95
Sand- - - - -	39	134
Shale- - - - -	18	152
Sand and lime- - - - -	19	171
Sand and shale- - - - -	25	196
Shale- - - - -	23	219
Sand- - - - -	50	269
Soft sand- - - - -	31	300
Lime and hard sand- - - - -	13	313
Shale- - - - -	43	356
Sand- - - - -	44	400
Shale- - - - -	11	411
Sand- - - - -	12	423
Shale- - - - -	71	494
Sand- - - - -	4	498
Shale- - - - -	62	560
Sand- - - - -	18	578
Shale- - - - -	70	648
Sandy shale- - - - -	82	730
Sand- - - - -	12	742
Shale- - - - -	43	785
Lime- - - - -	3	788
Shale- - - - -	28	816
Sand- - - - -	12	828
Shale- - - - -	17	845
Sand- - - - -	11	856
Shale- - - - -	4	860
Sand- - - - -	10	870
Lime- - - - -	2	872

CASING RECORD; 82 feet of 10 inch,
874 feet of 6 5/8 inch, 860 feet of 4
inch, 214 feet of 1 1/2 inch, and 383 feet
of 1 inch.

Driller's log of well 276a

Fred Adrian Farm, well no. 2. 5 1/2
miles east of Gladewater.

Sand and clay- - - - -	17	17
Sand- - - - -	80	97
Gumbo and boulders- - - - -	44	141
Shale- - - - -	28	169
Water sand- - - - -	55	224
Shale, gumbo and boulders -	116	340
Water sand- - - - -	11	351
Gumbo- - - - -	15	366
Water sand- - - - -	16	382
Gumbo- - - - -	33	415
Water sand- - - - -	8	423
Gumbo- - - - -	14	437
Water sand- - - - -	21	458
Gumbo- - - - -	18	476

Driller's log of well 285

Gulf Production Co., M. Smith lease.
7 miles east of Gladewater.

	Thickness (feet)	Depth (feet)
Surface clay- - - - -	20	20
Sand- - - - -	5	25
Shale- - - - -	4	29
Rock- - - - -	1	30
Packed sand- - - - -	15	45
Rock- - - - -	1	46
Sandy shale- - - - -	16	64
Sandy gumbo- - - - -	5	69
Hard sand- - - - -	11	80
Rock- - - - -	1	81
Shale- - - - -	39	120
Sand and boulders- - - - -	18	138
Sandy shale- - - - -	71	209
Sticky shale- - - - -	18	227
Sand and lignite- - - - -	30	257
Hard sand- - - - -	21	283
Gumbo- - - - -	4	287
Hard sand- - - - -	42	329
Sandy shale- - - - -	32	361
Shale- - - - -	39	400
Rock- - - - -	1	401
Sand and shale- - - - -	39	440
Sand and shale- - - - -	40	480
Gumbo- - - - -	43	523
Hard rock- - - - -	5	528
Gumbo- - - - -	20	558
Shale and hard sand - - - -	32	590
Hard sand- - - - -	34	624
White sand- - - - -	34	658
Gray sand- - - - -	100	758
White sand- - - - -	30	788
Sandy gumbo- - - - -	17	805
Rock- - - - -	4	809
Hard sand- - - - -	27	836
Sand- - - - -	37	873
Sandy shale- - - - -	20	893
Gumbo- - - - -	67	960
Gumbo and lime- - - - -	4	964

Driller's log of well 290

Tidewater Oil Co., E. M. Nettleton
lease. 5 1/2 miles east of Gladewater.

Clay- - - - -	10	10
Sand, shale and boulders- -	632	642
Rock- - - - -	2	644
Sand and shale- - - - -	136	780
Water sand- - - - -	63	843
Set 8 1/2 inch casing at 780 feet with 30 sacks of cement, then 86 feet of perforated 6 inch liner at bottom. 417 feet of 4 inch tubing and 244 feet of 1 1/2 inch air line.		

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 291
Cox-Hanon Oil Co., Collins Investment Co.
tract. $5\frac{1}{2}$ miles east of Gladewater.

	Thickness (feet)	Depth (feet)
Gray sand- - - - -	4	4
Red clay- - - - -	16	20
Water sand- - - - -	30	50
Gray sandy shale- - - - -	26	76
Shell - - - - -	8	84
Gray shale- - - - -	61	145
Brown shale- - - - -	280	425
Water sand- - - - -	20	445
Gumbo- - - - -	35	480
Water sand- - - - -	45	525
Gray shale- - - - -	130	655
Black shale- - - - -	10	665
Blue shale- - - - -	25	690
Sandy shale- - - - -	40	730
Water sand- - - - -	25	755
Sandy shale- - - - -	40	795
Water sand- - - - -	28	823
Shale- - - - -	12	835
Water sand- - - - -	45	880
Set 795 feet of 6 $\frac{5}{8}$ inch casing and 103 feet of 5 $\frac{3}{16}$ inch liner. 416 feet of 4 inch tubing with 7 foot working barrel.		

Driller's log of well 294
Magnolia Petroleum Co., R. B. White
lease. $5\frac{1}{2}$ miles east of Gladewater.

Clay- - - - -	20	20
Hard dry sand- - - - -	10	30
Gray sand and lignite - - -	41	71
Green sandy shale- - - - -	20	91
Sand rock- - - - -	1	92
Green sandy shale- - - - -	20	112
Blue shale- - - - -	35	147
Gray sand - - - - -	30	177
Shale- - - - -	75	252
Rock- - - - -	1	253
Sticky shale- - - - -	6	259
Sandy shale- - - - -	45	304
Green sand and lignite- - -	75	379
Sandy shale and boulders- -	25	404
Gray sand- - - - -	43	450
Sand and shale- - - - -	193	643
Sand and boulders- - - - -	20	663
Gray sand- - - - -	10	673
Sticky shale- - - - -	30	703
Sand- - - - -	91	794
Gummy shale- - - - -	2	796
Set $8\frac{1}{2}$ inch casing at 698 feet with 6 $\frac{5}{8}$ screen to 789 feet.		

Driller's log of well 295
Sinclair Prairie Co., James Moore,
et al lease. 5 miles east of
Gladewater.

	Thickness (feet)	Depth (feet)
Sand and clay- - - - -	71	71
Shale and boulders - - - - -	92	163
Sand- - - - -	16	179
Gumbo and boulders- - - - -	44	223
Gumbo and streaks of shale -	117	340
Fine sand- - - - -	24	364
Broken shale- - - - -	14	378
Fine sand- - - - -	14	392
Broken sand- - - - -	4	396
Fine sand- - - - -	8	404
Shale- - - - -	58	462

Driller's log of well 296
Sinclair Prairie Co., James Moore
et al lease. 5 miles east of Gladewater.

Surface sand- - - - -	89	89
Shale- - - - -	78	167
Gumbo- - - - -	130	317
Boulders- - - - -	10	327
Water sand- - - - -	21	348
Gumbo- - - - -	21	369
Water sand- - - - -	37	406
Gumbo- - - - -	49	455
Set 453 feet of $8\frac{1}{2}$ inch casing slotted at 328-348, and 369-429 feet. Cemented at 314 feet with 30 sacks of cement. Slots cut $\frac{3}{16}$ inch wide and 12 inches long, with 8 slots staggered around pipe. Set tubing as follows; 4 inch to 224 feet. 3 inch to 392, and $2\frac{1}{2}$ inch to 451 feet. Run $\frac{3}{4}$ inch air line to 450 feet.		

Driller's log of well 297
Tidal Oil Co., Boston Moore lease.
 $4\frac{1}{2}$ miles southeast of Gladewater.

Surface sand and clay- - -	39	39
Rock- - - - -	3	42
Sand- - - - -	9	51
Shale- - - - -	9	60
Sand- - - - -	14	74
Rock- - - - -	1	75
Sand- - - - -	1	76
Packed sand - - - - -	63	139
Rock- - - - -	2	141
Sticky shale- - - - -	35	176
Hard sandy shal - - - - -	73	249
Sandy shale- - - - -	11	260
Sticky shale- - - - -	13	272

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 297--Continued

	Thickness (feet)	Depth (feet)
Gumbo- - - - -	44	316
Gummy shale- - - - -	19	335
Sticky shale- - - - -	50	385
Sand- - - - -	15	400
Hard lime- - - - -	63	463
Sand- - - - -	21	484
Hard shale- - - - -	76	560
Hard lime- - - - -	59	619
Hard sticky shale- - - - -	51	670
Rock- - - - -	2	672
Soft sandy shale- - - - -	59	731
Hard shale- - - - -	3	734
Set 743 feet of 8 $\frac{1}{2}$ inch casing, 83 feet of 6 inch casing, and 64 feet of 6 inch screen. 410 feet of 4 inch tubing with 228 feet of 1 $\frac{1}{2}$ inch air line.		

Driller's log of well 298

Sinclair Oil Co., J. W. Akin lease. 4 $\frac{1}{4}$ miles east of Gladewater.		
Surface clay and sand- - - -	80	80
Rock- - - - -	3	83
Sand and boulders- - - - -	46	129
Sand- - - - -	47	176
Gumbo and boulders - - - - -	115	291
Fine packed sand- - - - -	51	342
Shale with streaks of lignite and sand- - - - -	91	433
Rock- - - - -	13	446

Driller's log of well 299--Continued

	Thickness (feet)	Depth (feet)
Water sand- - - - -	75	521
Gumbo and boulders- - - - -	151	672
Hard sand- - - - -	19	691
Rock- - - - -	8	699
Gumbo and boulders- - - - -	47	746
Sand rock- - - - -	8	754
Gumbo and boulders- - - - -	18	772
Sand- - - - -	59	831
Water sand- - - - -	54	885

Driller's log of well 299a

Sinclair Prairie Oil Co. I. Isley lease. 2 miles southeast of Gladewater.		
Red beds- - - - -	15	15
Yellow clay- - - - -	20	35
Quicksand- - - - -	40	75
Shale- - - - -	60	135
Sand- - - - -	10	145
Shale- - - - -	190	335
Sandy shale- - - - -	79	414
Shale- - - - -	56	470
Water sand- - - - -	55	525
Shale- - - - -	78	603
Plugged back to 527.		
Casing Record: 42 feet of 10 inch, 172 feet of 8 $\frac{1}{2}$, and 478 feet of 6 5/8 inch. 410 feet of 4 inch tubing with 233 feet of 1 inch air line.		

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 409		
Houston Oil Co., W. L. Davis lease.		
7 miles north of Kilgore.		
	Thickness (feet)	Depth (feet)
Red shale-	12	12
Quicksand-	13	25
Black sandy shale-	35	60
Black gumbo-	12	72
Rock-	5	77
Soapstone	33	110
Shell Rock-	3	113
Brown black shale-	67	180
Sandy shale and boulders-	30	210
Hard rock-	7	217
Brown shale-	13	230
Water sand, flowed	12	242
Brown black shale-	68	310
Sand rock-	8	318
Sandy shale-	60	378
Water sand, flowed	7	385
Blue shale-	8	393
Sand-	6	399
Sandy shale-	16	415
Brown shale-	5	420
Set 30 feet of 10 inch casing, 86 feet of 6 5/8 inch, and 4 joints of 7 inch perforated.		

Driller's log of well 411		
Sinclair Prairie Oil Co., M. T. Jole lease. 6 1/4 miles northwest of Kilgore.		
Sand-	91	91
Blue clay-	44	135
Sand-	19	154
Sand rock-	2	156
Sand-	14	170
Shale-	17	187
Sand-	31	218
Sticky lime-	100	318
Sand-	10	328
Sticky lime-	4	332
Sand-	32	364
Lignite-	25	389
Sand-	11	400
Lignite-	18	418
Sand-	36	454
Shale-	69	523
Sand-	11	534
Sticky lime-	46	580
Shale-	8	588
Clay-	14	602
Sand-	14	616
Clay-	1	617
Sand-	16	633
Clay-	4	637
Sand-	12	649
Sticky lime-	53	702

Driller's log of well 411--Continued		
	Thickness (feet)	Depth (feet)
Sand-	64	766
Lime-	18	784
Shale-	4	788
Lime-	18	806
Sand-	20	826
Lime-	4	830
Sand-	164	994
Clay-	14	1008
CASING RECORD: 844 feet of 12 1/2 inch, 80 feet lap of 8 1/2 inch with lead seal at 764 feet, 157 feet of 8 inch screen at 846-1,003 feet.		

Driller's log of well 412a		
Sinclair Prairie Oil Co., W. B. Walker lease. 7 1/2 miles northwest of Kilgore.		
Surface clay-	4	4
Red clay-	6	10
Yellow sand-	50	60
Red sand-	35	95
Gray sand and water	5	100
Brown shale-	40	140
Blue shale-	10	150
Gravel-	5	155
Gray sandy shale-	5	160
Gray shale-	20	180
Gray sandy shale-	45	225
Gray shale-	25	250
Brown shale-	130	380
Black shale-	10	390
Gray shale-	60	450
Broken sand-	20	470
Sandy shale-	20	490
Brown shale-	15	505
White shale-	15	520
Sand and water-	10	530
Gray shale-	30	560
Water sand	20	580
Gray shale	25	605
Brown shale-	5	610
Sand, lots of water-	48	658
Brown shale-	17	675
Gray shale-	15	690
CASING RECORD: 556 feet of 6 5/8 inch, 144 feet of 5 3/16 inch. Top two joints and bottom two joints of liner are blank, Middle three are perforated. Also set 542 feet of 4 inch tubing and 430 feet of 1 inch air line.		

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 421
Sabine School; well no. 2, W. W. Chapman
lease. $5\frac{3}{4}$ miles northwest of Kilgore.

	Thickness (feet)	Depth (feet)
Red clay- - - - -	15	15
Quicksand - - - - -	8	23
Sandy shale- - - - -	52	75
Brown shale- - - - -	50	125
Blue shale- - - - -	43	168
Water sand- - - - -	12	180
Blue sand- - - - -	7	187
Blue shale - - - - -	49	236
Water sand- - - - -	19	255
Blue shale- - - - -	55	310
Set 187 feet of $8\frac{1}{4}$ inch casing and 162 feet of 5 3/16 inch liner.		

Driller's log of well 423
Tidal Oil Co., Tom Bell lease, 5 miles
northwest of Kilgore.

Surface- - - - -	5	5
Red clay- - - - -	13	18
Sand- - - - -	51	69
Shale- - - - -	11	80
Sandy shale- - - - -	30	110
Sand- - - - -	22	132
Shale- - - - -	18	150
Lime- - - - -	2	152
Sandy shale- - - - -	21	173
Lime- - - - -	2	175
Sandy shale- - - - -	6	181
Lime- - - - -	2	183
Shale- - - - -	16	199
Sand - - - - -	16	215
Sandy shale- - - - -	15	230
Sand- - - - -	25	255
Shale- - - - -	5	260
Sandy shale- - - - -	29	289
Sand- - - - -	21	310
Sandy shale- - - - -	20	330
Sand- - - - -	7	337
Shale- - - - -	13	350
Sand- - - - -	55	405
Sandy shale- - - - -	25	430
Shale and shells - - - - -	15	445
Sand- - - - -	12	457
Shale- - - - -	48	505
Sand- - - - -	10	515
Shale- - - - -	8	523
Sand- - - - -	12	535
Shale and boulders- - - - -	20	555
Sand- - - - -	48	603
Shale- - - - -	69	672
Sand - - - - -	11	683
Shale- - - - -	113	801
Sand- - - - -	44	845

Driller's log of well 423--Continued
Set 77 feet of 10 inch, 631 feet of
6 5/8 inch and 228 feet of 6 5/8 inch
perforated. 453 feet of 4 inch tubing
and 322 feet of $1\frac{1}{4}$ inch air line.

Driller's log of well 424
Invincible Oil Co., Will Williams
lease. $4\frac{3}{4}$ miles north of Kilgore.

	Thickness (feet)	Depth (feet)
Surface sand- - - - -	22	22
Sand and hard shell - - - - -	40	62
Shale - - - - -	173	235
Water sand- - - - -	21	256
Shale - - - - -	48	304
Rock- - - - -	1	305
Shale- - - - -	45	350
Sand, flowed water- - - - -	40	390
Sandy shale - - - - -	98	488
Shale- - - - -	108	596
Shale and boulders- - - - -	69	665
Gumbo- - - - -	33	698
Sand- - - - -	11	709
Water sand- - - - -	56	765
Shale and boulders- - - - -	51	816
Water sand- - - - -	11	827
Shale and boulders- - - - -	23	850
Water sand- - - - -	40	890
Set $6\frac{1}{4}$ inch casing at 890 feet.		

Driller's log of well 426
Sabine Valley Gasoline Corp. well no.
1, Laura Howard lease. 4 miles north
of Kilgore.

Surface sand and clay- - - - -	53	53
Shale- - - - -	68	121
Gumbo- - - - -	175	296
Sand- - - - -	18	314
Gumbo - - - - -	82	396
Sand- - - - -	50	446
Shale- - - - -	8	454

Driller's log of well 427
Sabine Valley Gasoline Corp. well no.
2. Laura Howard lease. 4 miles north
of Kilgore.

Surface sand and clay- - - - -	60	60
Gumbo and boulders- - - - -	133	193
Sand- - - - -	86	276
Gumbo - - - - -	15	291
Shale - - - - -	28	319
Gumbo- - - - -	71	390
Sand - - - - -	63	453
Shale- - - - -	14	467

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 433
Sinclair Prairie Oil Co., John Elder
lease. 4 miles north of Kilgore.

	Thickness (feet)	Depth (feet)
Red clay-	20	20
Blue shale-	18	38
Sand rock-	5	43
Sandy shale-	4	47
Blue shale-	20	67
Sand rock-	4	71
Blue shale-	9	80
Sand rock-	5	85
Blue shale-	7	92
Sand rock-	9	101
Brown, gray and blue shale-	120	221
Water sand-	6	227
Blue shale-	17	244
Black shale-	34	278
Sand rock-	4	282
Water sand-	8	290
Sandy shale-	25	315
Blue shale-	30	345
Red bed-	5	350
Sandy shale-	20	370
Brown shale-	20	390
Black shale-	30	420
Sand-	5	425
Sandy shale-	120	545
Blue, brown, and black shale-	135	680
Soapstone-	10	690
Blue shale-	34	724
Water sand-	122	846

Set 673 feet of 6 5/8 inch casing, 87 feet of 5 3/16 inch, and 65 feet of 5 3/16 inch perforated. 284 feet of 2 1/2 inch tubing.

Driller's log of well 435
Tidewater Oil Co., M. B. Hughey lease.
4 miles north of Kilgore.

Surface rock and shale-	200	200
Sandy shale and lignite-	65	265
Water sand-	15	280
Sand, shale, and lignite-	14	294

Set 255 feet of 6 5/8 inch casing and 42 feet of 6 5/8 inch screen. 150 feet of 4 inch tubing and 125 feet of 1 1/4 inch air line.

Driller's log of well 441
Magnolia Petroleum Co., G. B. Anderson
lease. 2 3/4 miles north of Kilgore.

Surface soil-	2	2
Red sandy clay-	12	14
Yellow sand with streaks of clay-	15	29
Blue shale-	21	50
Dark brown shale and boulders	67	117

Driller's log of well 441--Continued

	Thickness (feet)	Depth (feet)
Rock-	1	118
Green sandy shale-	25	143
Rock-	2	145
Green sandy shale and boulders-	15	160
Rock-	1	161
Shale-	1	162
Hard rock-	1	163
Shale-	4	167
Hard rock-	2	169
Green sandy shale-	9	178
Rock-	2	180
Green sandy shale and boulders-	26	206
Shale-	32	238
Rock-	2	240
Boulders-	3	243
Hard shale and boulders-	14	257
Sandy shale-	18	275
Gray sand good-	10	285
Hard sandy shale and lignite	28	313
Rock-	1	314
Hard sandy shale-	26	340
Soft sandy shale-	23	363
Hard shale-	20	383
Shale and lignite-	32	415
Gray sand-	10	425
Gray sandy shale-	68	493
Rock-	1	494
Shale-	44	538
Sandy shale-	98	636
Sand and shale-	59	695
Sandy shale-	44	739
Shale and streaks of lignite	21	760
Shale with streaks of sand and lignite-	77	837
Sand and shale-	15	852
Hard rock-	4	856
Sand and shale-	44	900
Rock-	2	902
Sandy shale-	55	957
Rock-	1	958
Sand and shale-	32	990
White sand, good-	30	1020
Hard shale and lignite-	2	1022

Set 8 1/2 inch casing with screens set at 657-659, 852-873, 894-917, and 938-983 feet.

Driller's log of well near 442
Sinclair Prairie Oil., A. A. Lockhart
lease. 3 miles northwest of Kilgore.

Red clay-	5	5
Yellow clay-	20	25
Red shale-	10	35

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well near
442--Continued

	Thickness (feet)	Depth (feet)
Sand- - - - -	10	45
Brown shale - - - - -	25	70
Blue shale- - - - -	30	100
Brown shale- - - - -	60	160
Water sand- - - - -	15	175
Brown shale- - - - -	55	230
Gray shale- - - - -	5	235
Water sand (hole full)- - - - -	60	295
Brown shale- - - - -	95	390
Water sand (hole full)- - - - -	15	405
Brown shale- - - - -	75	480
Blue shale- - - - -	18	498
Broken sand- - - - -	22	520
Brown shale- - - - -	10	530
Blue shale- - - - -	60	590
Water sand (hole full)- - - - -	20	610
Blue shale- - - - -	15	625
Sandy gray shale- - - - -	25	650
Brown shale- - - - -	30	680
Water sand (hole full) - - - - -	17	697
Gray shale- - - - -	23	720
Brown shale- - - - -	25	745
Gray shale- - - - -	25	770
Brown shale- - - - -	45	815
Gray shale- - - - -	7	822
Water sand- - - - -	48	870
Brown sand- - - - -	15	885
Set 343 feet of 8 $\frac{1}{4}$ inch casing, 661 feet of 6 5/8 inch, and 252 feet of 5 3/16 casing. 307 feet of 2 $\frac{1}{2}$ inch tubing. Developed sands at 680-697 and 822-870 feet.		

Driller's log of well 444
Tidewater Oil and Gas Co., C. G.
Strong lease. 3 $\frac{1}{4}$ miles northwest
of Kilgore.

Clay- - - - -	25	25
Gray sand - - - - -	20	45
Sand and lignite- - - - -	30	75
Sand- - - - -	35	110
Rock- - - - -	2	112
Sand and boulders - - - - -	53	165
Rock- - - - -	1	166
Sand and lignite- - - - -	6	172
Rock- - - - -	1	173
Sand and shale- - - - -	27	200
Rock- - - - -	1	201
Shale and boulders- - - - -	343	544
Rock- - - - -	1	545
Sand and shale- - - - -	55	600
Gummy shale- - - - -	240	840

Driller's log of well 444--Continued
Thickness Depth
(feet) (feet)

Water sand- - - - - 97 | 977
CASING RECORD: 813 feet of 8 $\frac{1}{4}$ inch casing, 51 feet of 7 inch and 107 feet of 7 inch screen. 642 feet of 4 inch tubing and 415 feet of 1 $\frac{1}{4}$ inch air line.

Driller's log of well 460
Sun Oil Co., Chas. Lloyd farm. 2 $\frac{1}{2}$
miles west of Kilgore.
Surface clay and sand- - - 17 | 17
Surface sand and shale - - 91 | 108
Water sand- - - - - 9 | 117
Shale and gumbo- - - - - 238 | 355
Water sand- - - - - 15 | 370
Shell- - - - - 2 | 372
Water sand - - - - - 52 | 424

Driller's log of well 460a
Sun Oil Co., Chas. Lloyd lease. 2 $\frac{3}{4}$
miles west of Kilgore.
Surface- - - - - 90 | 90
Sand Rock- - - - - 3 | 93
Sand and clay- - - - - 219 | 312
Shale and streaks of sand- 176 | 488
Sand- - - - - 77 | 565
Sand rock- - - - - 9 | 574
Shale- - - - - 20 | 594
Rock- - - - - 4 | 598
Shale- - - - - 23 | 621
Sand with clay streaks - - 51 | 672
Water sand- - - - - 18 | 690
Sandy shale- - - - - 19 | 709
Sand with lignite- - - - - 34 | 743
Shale- - - - - 4 | 747
Sand and streaks of lignite 40 | 787
Rock- - - - - 2 | 789
Sand and lignite streaks - 37 | 826
Sand with clay streaks - - 47 | 873
Rock- - - - - 2 | 875
Sand and clay streaks- - - 36 | 911
Shale- - - - - 4 | 915
8 inch casing perforated at 498-565, 672-690, and 875-915 feet.

Driller's log of well 462
Tidewater Oil Co., E. D. R. Bivens
lease. 2 $\frac{1}{4}$ miles northwest of Kilgore.
Clay- - - - - 18 | 18
Shale- - - - - 7 | 25
Shale and sand- - - - - 310 | 335
Rock- - - - - 1 | 336
Sandy shale - - - - - 14 | 350

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 462--Continued

	Thickness (feet)	Depth (feet)
Sand and boulders- - - - -	100	450
Sand, water- - - - -	12	462
Set 428 feet of 8 $\frac{1}{4}$ inch casing and 37 feet of 8 $\frac{1}{4}$ inch screen.		

Driller's log of well 463

Tidewater Oil Co., E. D. R. Bivens lease. 2 $\frac{1}{4}$ miles northwest of Kilgore.		
Sand and clay- - - - -	60	60
Rock- - - - -	1	61
Shale, sand and boulders- - - - -	73	134
Shale and sand- - - - -	174	308
Sand, shale and boulders - - - - -	176	484
Shale and sand- - - - -	325	809
Rock- - - - -	3	812
Shale- - - - -	16	828
Rock- - - - -	3	831
Packed sand- - - - -	3	834
Rock- - - - -	1	835
Sand- - - - -	76	911
Water sand- - - - -	45	956
Set 819 feet of 8 $\frac{1}{4}$ inch casing, 65 feet of 6 inch plain and 116 feet of 6 inch screen. 400 feet of 4 inch tubing and 220 feet of 1 $\frac{1}{4}$ inch air line.		

Driller's log of well 465

Tidewater Oil Co., M. G. Barton lease. 2 miles northwest of Kilgore.		
Clay- - - - -	8	8
Sand and shell rock - - - - -	163	171
Sandy shale- - - - -	353	524
Sandy shale and boulders- - - - -	264	788
Rock- - - - -	1	789
Sandy shale - - - - -	21	810
Rock- - - - -	62	812
Sandy shale - - - - -	28	840
Rock- - - - -	1	841
Water sand- - - - -	59	900
CASING RECORD: 795 feet of 8 $\frac{1}{4}$ inch cas- ing, 172 feet of 6 inch and 85 feet of 6 inch screen. 400 feet of 4 inch tubing and 220 feet of 1 $\frac{1}{4}$ inch air line.		

Driller's log of well 466

Tidewater Oil Co., J. S. King lease. $\frac{1}{2}$ mile north of Kilgore.		
Clay- - - - -	20	20
Sand and gravel- - - - -	30	50
Sand- - - - -	3	53
Rock- - - - -	2	55
Sand and shale- - - - -	30	85
Rock- - - - -	1	86
Sandy shale- - - - -	119	215

Driller's log of well 466--Continued

	Thickness (feet)	Depth (feet)
Rock- - - - -	1	216
Shale- - - - -	4	220
Sand and lignite - - - - -	230	450
Shale and boulders - - - - -	130	580
Sand and boulders- - - - -	195	775
Shale- - - - -	34	809
Rock- - - - -	2	811
Shale - - - - -	17	828
Rock- - - - -	1	829
Sandy shale - - - - -	48	877
Sand- - - - -	80	957
Set 819 feet of 8 $\frac{1}{4}$ inch casing, 105 feet of 6 inch and 94 feet of 6 inch screen.		

Driller's log of well 467

Tidewater Oil Co., M. G. Barton lesse. 1 $\frac{3}{4}$ miles northwest of Kilgore.		
Red Clay- - - - -	8	8
Sand and shale rock - - - - -	163	171
Shale and boulders- - - - -	53	224
Set 42 feet of 6 5/8 inch blank and 185 feet of 6 5/8 inch screen.		

Driller's log of well 467b

Shell Petroleum Co., Elder Bros. lease. 1 $\frac{1}{4}$ miles northwest of Kilgore.		
Sandy clay- - - - -	12	12
Sand- - - - -	32	44
Shale and boulders- - - - -	109	153
Sand, shale and lignite -- - - -	398	551
Shale- - - - -	173	724
Sand- - - - -	43	767
Shale- - - - -	12	779
Water sand, hard - - - - -	113	892
Gravel walled with 100 feet of screen.		

Driller's log of well 468

City of Kilgore; City Park Kilgore, Texas		
Red clay- - - - -	16	16
Sand- - - - -	10	26
Sandy shale- - - - -	51	77
Rock- - - - -	1	78
Sandy shale - - - - -	38	116
Shale- - - - -	41	157
Sandy shale- - - - -	22	179
Shale, streaks of sand- - - - -	51	230
Rock- - - - -	1	231
Shale- - - - -	8	239
Sandy shale- - - - -	48	287
Fine sand- - - - -	16	303
Shale, streaks of sand- - - - -	76	379
Shale- - - - -	29	408
Sandy shale- - - - -	199	607
Sand- - - - -	20	627

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 468--Continued

	Thickness (feet)	Depth (feet)
Sand and shale- - - - -	113	740
Sand- - - - -	40	780
CASING RECORD: 607 feet of 16 inch blank, 3/8 inch wall, cemented with 600 sacks of cement; Set 777 feet of 10 inch with bronze screen at 607-625 and 665-755 feet.		

Driller's log of well 468b

I. & G. N. RR. at Kilgore.

Surface clay- - - - -	3	3
Clay and sand- - - - -	9	12
Clay- - - - -	31	43
Rock- - - - -	1	44
Sand and boulders- - - - -	8	52
Rock- - - - -	1	53
Clay- - - - -	11	64
Sand and shale- - - - -	9	73
Rock- - - - -	6	79
Shale and sand- - - - -	48	127
Packed sand- - - - -	6	133
Shale and gumbo- - - - -	20	153
Shale and sand- - - - -	41	194
Packed sand- - - - -	4	198
Shale- - - - -	18	226
Sand- - - - -	10	236
Gumbo- - - - -	24	260
Sand rock- - - - -	4	264
Shale- - - - -	24	288
Rock- - - - -	2	290
Shale- - - - -	9	299
Sand- - - - -	11	310
Shale and gumbo- - - - -	60	370
Sand and boulders, set screen	34	404
Shale and gumbo- - - - -	5	409
Sand and boulders- - - - -	9	418
Shale and gumbo- - - - -	29	446
Sand- - - - -	7	453
Sand and shale- - - - -	7	460
Shale- - - - -	11	471
Sand and boulders- - - - -	5	476
Sand and shale- - - - -	12	488
Sand and boulders- - - - -	18	506
Shale and gumbo- - - - -	16	522
Rock- - - - -	2	524
Sand and shale- - - - -	102	626
Fine sand- - - - -	4	630
Sand, shale, and marl- - - - -	72	702
Sand- - - - -	7	709
Rock- - - - -	3	712
Packed sand- - - - -	14	726
Rough packed sand, set screen	23	749
Rock- - - - -	4	753
Rough sand, set screen- - - - -	52	805

Driller's log of well 469
City of Kilgore, well no. 1.

	Thickness (feet)	Depth (feet)
Surface - - - - -	1	1
Clay- - - - -	6	7
Sandy clay- - - - -	15	22
Shale and boulders- - - - -	56	78
Shale, layers of sand - - - - -	63	141
Shale- - - - -	64	205
Sand- - - - -	21	226
Shale- - - - -	44	270
Shale, streaks of hard sand	56	326
Coarse gray sand- - - - -	18	344
Shale and lignite- - - - -	89	433
Good sand- - - - -	18	451
Shale- - - - -	4	455
Sand- - - - -	36	491
Shale, streaks of sand- - - - -	87	578
Sand- - - - -	28	606
Shale and boulders- - - - -	35	641
Shale and lignite- - - - -	76	717
Sticky shale- - - - -	32	749
White sand, good- - - - -	126	875
CASING RECORD: 373 feet of 15 ¹ / ₂ inch, then 8 ¹ / ₂ inch to bottom of well with top 58 feet of 8 ¹ / ₂ lapped into 15 ¹ / ₂ inch and screen at 773-873 feet.		

Driller's log of well 469b

Kilgore Hotel, Kilgore, Texas.

Red clay- - - - -	18	18
Seep water - - - - -	2	20
Sand- - - - -	10	30
Shale- - - - -	18	48
Sandy shale and shell rock-	38	86
Brown shale- - - - -	42	128
Gray lime- - - - -	3	131
Brown shale- - - - -	15	146
Water sand- - - - -	14	160
Hard sand rock- - - - -	7	167
Blue shale- - - - -	13	180
Sandy shale- - - - -	18	198
Blue shale- - - - -	53	251
Sand- - - - -	14	265
Sandy shale- - - - -	55	320
Broken water sand- - - - -	15	335
Blue shale- - - - -	153	488
Rock- - - - -	3	491
Blue shale- - - - -	14	505
Broken water sand- - - - -	29	534
Shale, water sand, and lignite- - - - -	96	630

Driller's log of well 470

City of Kilgore well no. 3, Kilgore, Tex.

Surface soil- - - - -	1	1
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Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 470--Continued

	Thickness (feet)	Depth (feet)
Clay- - - - -	6	7
Sandy clay- - - - -	12	19
Shale and layers of sand- - -	15	34
Shale and boulders- - - - -	41	75
Sand rock- - - - -	2	77
Sand, boulders and shale- - -	80	157
Shale and sand- - - - -	66	223
Sandy shale- - - - -	14	237
Shale, sand and lignite - - -	286	523
Shale and boulders- - - - -	52	575
Sand- - - - -	30	605
Shale and boulders- - - - -	32	637
Shale, boulders, lignite- - -	77	714
Sticky shale- - - - -	15	729
Sand- - - - -	9	738
Sticky shale- - - - -	9	747
Sand- - - - -	159	906
Set 763 feet of 10 inch casing, 6 5/8 to bottom with screen at 802-907 feet.		

Driller's log of well 471

Humble Oil and Refining Co., S. S. Laird
"B" lease. $\frac{1}{2}$ mile south of Kilgore.

Surface sand- - - - -	3	3
Clay- - - - -	15	18
Green sand- - - - -	10	28
Shale and boulders- - - - -	8	36
Green sand and boulders- - -	27	63
Rock- - - - -	2	65
Green sand- - - - -	30	95
Lignite- - - - -	4	99
Shale and sand- - - - -	19	118
Shale, lignite, and boulders-	76	194
Rock- - - - -	4	198
Green sand and shale- - - - -	31	229
Shale and lignite- - - - -	28	257
Green sand- - - - -	26	283
Shale and lignite- - - - -	34	317
Fine gray sand and lignite- -	79	396
Gray sand- - - - -	38	434
Lignite and sand - - - - -	46	480
Lignite- - - - -	6	486
Shale and lignite- - - - -	62	548
Rock- - - - -	1	549
Sandy shale and boulders- - -	37	586
Sticky shale- - - - -	46	632
Rock- - - - -	1	633
Sandy shale- - - - -	58	691
Lignite- - - - -	18	709
Shale and lignite- - - - -	25	734
Rock- - - - -	1	735
Shale- - - - -	10	745
Sand and lignite- - - - -	22	767
Lignite- - - - -	17	784
Sand, lignite, and shale- - -	66	850

Driller's log of well 471--Continued

	Thickness (feet)	Depth (feet)
Gray sand- - - - -	12	862
Sand and shale- - - - -	20	882
Shale- - - - -	26	908
Set 350 feet of 16 inch, 8 $\frac{1}{2}$ inch to bottom, with screens at 380-436, 747-769, and 821-865 feet.		

Driller's log of well 480

Magnolia Petroleum Co., J. M. Blackman
lease. $2\frac{1}{2}$ miles west of Kilgore.

Clay- - - - -	21	21
Sand- - - - -	60	81
Rock- - - - -	3	84
Sand- - - - -	47	131
Rock- - - - -	3	134
Shale- - - - -	86	220
Rock- - - - -	2	222
Sand- - - - -	64	286
Shale- - - - -	40	326
Sand- - - - -	20	346
Shale- - - - -	185	531
Shale and sand- - - - -	220	751
Sand- - - - -	20	771
Rock- - - - -	3	774
Shale and boulders- - - - -	84	858
Sand, hard streaks- - - - -	95	953
Set 860 feet of 6 inch line pipe and 93 feet of 6 5/8 inch screen.		

Driller's log of well 481

Tidewater Oil Co., well no. 2, J. M.
Blackman lease. $2\frac{1}{2}$ miles west of
Kilgore.

Clay- - - - -	35	35
Sand and lignite- - - - -	24	59
Rock- - - - -	2	61
Sand and lignite- - - - -	10	71
Rock- - - - -	1	72
Sand and lignite- - - - -	28	100
Rock- - - - -	1	101
Sand and shale- - - - -	100	201
Rock- - - - -	5	206
Sandy shale - - - - -	236	442
Rock- - - - -	2	444
Sandy shale and shell - - -	132	576
Sandy shale - - - - -	201	777
Rock- - - - -	1	778
Shale and boulders- - - - -	102	880
Sand- - - - -	75	955
Set 788 feet of 8 $\frac{1}{4}$ inch, 129 feet of 6 inch plain, 120 feet of 6 inch screen, 301 feet of $\frac{1}{2}$ inch tubing, and 220 feet of 1 $\frac{1}{4}$ inch air line.		

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 481a
Tidewater Oil Co., well no. 1, J. M.
Blackman lease. $2\frac{1}{2}$ miles west of Kilgore.

	Thickness (feet)	Depth (feet)
Clay and sand- - - - -	70	70
Hard sand and boulders - - -	45	115
Sand and boulders- - - - -	102	217
Sandy shale- - - - -	25	242
Water sand - - - - -	7	249
Set 218 feet of 6 5/8 inch, and 43 feet of 6 5/8 inch screen.		

Driller's log of well 486
Tidewater Oil Co., well no. 2, J. R.
Beall lease. $3\frac{1}{2}$ miles southwest of Kilgore.

Clay - - - - -	15	15
Rock- - - - -	1	16
Sand- - - - -	9	25
Rock- - - - -	1	26
Sand- - - - -	35	61
Rock- - - - -	6	67
Sand and gravel- - - - -	41	108
Rock- - - - -	6	114
Sand and boulders - - - - -	208	322
Rock- - - - -	1	323
Sand and boulders- - - - -	41	364
Rock- - - - -	1	365
Sand and shale- - - - -	128	493
Gummy shale- - - - -	90	583
Sand and shale - - - - -	107	690
Gummy shale- - - - -	45	735
Sand and shale- - - - -	65	800
Gummy shale- - - - -	14	814
Rock- - - - -	2	816
Sand- - - - -	14	830
Rock- - - - -	3	833
Sand- - - - -	23	856
Rock- - - - -	5	861
Sand - - - - -	16	877
Rock- - - - -	3	880
Sand- - - - -	92	972
Set 818 feet of 8 1/4 inch casing, 131 feet of 6 inch and 43 feet of 6 inch screen. Also 331 feet of 4 inch tubing.		

Driller's log of well 489
Tidewater Oil Co., well no. 1, J. R.
Beall lease. $3\frac{1}{2}$ miles southwest of Kilgore.

Sand and clay- - - - -	45	45
Rock- - - - -	2	47
Sand and gravel- - - - -	5	52
Rock- - - - -	2	54
Shale and sand- - - - -	54	108
Rock- - - - -	1	109

Driller's log of well 489--Continued
Thickness Depth
(feet) (feet)

Sandy shale- - - - -	172	281
Water sand- - - - -	9	290

Driller's log of well 491a
Tidal Oil Co., Terrell lease. $3\frac{3}{4}$ miles west of Kilgore.

Surface- - - - -	4	4
Yellow clay- - - - -	18	22
Sand- - - - -	14	36
Sandy shale and shale- - -	36	72
Shale- - - - -	9	81
Sand, flowing water- - - -	46	127
Shale- - - - -	115	242
Set 6 5/8 inch at 242 feet and 8 1/4 inch at 43 feet.		

Driller's log of well 520
Tidal Oil Co., M. B. Hughey lease.
 $7\frac{1}{4}$ miles southwest of Longview.

Surface soil and red clay- 7	7
Sand and boulders- - - - -	75 82
Hard sand- - - - -	15 97
Shale- - - - -	35 132
Gumbo- - - - -	8 140
Rock- - - - -	3 143
Sand- - - - -	22 165
Shale and boulders- - - -	103 268
Shale- - - - -	58 326
Water sand - - - - -	18 344
Shale- - - - -	29 373
Hard lime- - - - -	10 383
Water sand- - - - -	14 397
Hard sand- - - - -	4 401
Hard lime- - - - -	6 407
Sand- - - - -	19 426
Shale- - - - -	44 470
Hard lime- - - - -	4 474
Shale- - - - -	177 651
Hard lime- - - - -	5 656
Shale- - - - -	89 745
Hard lime- - - - -	5 750
Shale- - - - -	5 755
Gumbo- - - - -	23 778
Water sand- - - - -	125 903
Shale- - - - -	3 906

CASING RECORD: 166 feet of 10 inch,
379 feet of 6 5/8 inch, 48 feet of
6 5/8 inch perforated, 532 feet of
4 inch tubing, 268 feet of 1 1/2 inch
air line.

Driller's log of well 527
Shell Pipe Line Co., Rufus Smith lease.
 $6\frac{1}{2}$ miles southwest of Longview.

Record missing- - - - -	30	30
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Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 527--Continued		
	Thickness (feet)	Depth (feet)
Lignite and gumbo- - - - -	10	40
Rock- - - - -	4	44
Gumbo- - - - -	48	92
Coarse sand- - - - -	24	116
Gumbo- - - - -	65	181
Fine sand- - - - -	16	197
Shale- - - - -	12	209
Fine sand- - - - -	16	225
Gumbo- - - - -	18	243
Set 10 inch casing at 40 feet, 7 inch at 181 feet, and 4½ inch liner to 243 feet.		

Driller's log of well 533		
Frank Adams Water Co. well no. 1, 5¼ miles southwest of Longview.		
Surface soil- - - - -	42	42
Lignite- - - - -	8	50
Sandy clay- - - - -	100	150
Sandy shale- - - - -	30	180
Sand, water flow- - - - -	105	285
Sand and shale- - - - -	5	290
Sand, water flow- - - - -	110	400
Sticky shale- - - - -	10	410
Sandy shale- - - - -	180	590
Sand- - - - -	18	608
Sand and shale- - - - -	2	610
Sand, water flow- - - - -	44	654
Rock- - - - -	2	656
Sandy shale- - - - -	48	704
Rock- - - - -	1	705
Sticky shale and sand- - - -	24	729
Rock- - - - -	1	730
Sandy shale- - - - -	14	744
Sand rock- - - - -	2	746
Sand and sticky shale- - - -	54	800

Driller's log of well 536		
Humble Oil and Refining Co. Core test on B. A. Skipper lease. 4¼ miles southwest of Longview.		
Sand- - - - -	8	8
Surface clay and sand- - - -	28	36
Rock- - - - -	4	40
Clay- - - - -	4	44
Sand- - - - -	2	46
Rock- - - - -	2	48
Sand and boulders- - - - -	12	60
Sand- - - - -	30	90
Sandy shale- - - - -	52	142
Sand and shale- - - - -	142	286
Soft sand- - - - -	69	355
Sticky shale- - - - -	73	428
Sandy shale- - - - -	29	457
Rock- - - - -	1	458
Sand and streaks of shale- - -	62	520

Driller's log of well 536--Continued		
	Thickness (feet)	Depth (feet)
Sand and shale- - - - -	117	637
Sticky shale- - - - -	11	648
Sand and boulders- - - - -	42	690
Hard sand rock- - - - -	1	691
Shale and green sand- - - -	6	705
Rock- - - - -	1	706
Sandy shale- - - - -	29	735
Sand and shale- - - - -	10	745
Sandy shale- - - - -	39	784
Shell rock- - - - -	1	785
Sticky shale- - - - -	85	870
Sand- - - - -	9	879
Sticky shale- - - - -	67	946
Lime shell- - - - -	1	947
Sticky shale- - - - -	85	1032
Rock- - - - -	2	1034
Sticky shale- - - - -	156	1190
Sandy shale- - - - -	24	1214
Sticky shale- - - - -	58	1272
Hard sandy shale- - - - -	7	1279
Rock- - - - -	1	1280
Hard sandy shale- - - - -	58	1338
Hard sticky shale- - - - -	17	1355
Sticky shale- - - - -	57	1412
Shale and boulders- - - - -	8	1420
Rock- - - - -	1	1421
Sandy shale- - - - -	39	1450
Sticky shale- - - - -	15	1465
Hard sticky shale and streaks of gypsum- - - - -	30	1495
Hard sticky shale- - - - -	10	1505
Hard sandy shale- - - - -	15	1520
Sandy shale- - - - -	39	1559
Sticky shale- - - - -	121	1680
Hard sticky shale- - - - -	25	1705
Cemented 6 5/8 inch casing with 12 sacks of cement.		

Driller's log of well 558		
Arkansas Fuel Oil Co., M. B. Hughey lease. 3¼ miles north of Kilgore.		
Sand, shale and boulders- - -	101	101
Shale- - - - -	190	291
Sandy shale- - - - -	25	316
Sand- - - - -	53	369

Driller's log of well 559		
Sinclair Prairie Oil Co., Joe Lawther lease. 2¾ miles north of Kilgore.		
Surface- - - - -	53	53
Shale- - - - -	89	142
Gumbo and boulders- - - - -	22	164
Shale and boulders- - - - -	135	299
Gumbo- - - - -	11	310
Sand- - - - -	40	350

(Continued on next page)

Table of Drillers' Logs of Gregg County--Continued

Driller's log of well 559--Continued

	Thickness (feet)	Depth (feet)
Shale- - - - -	4	354
Sand- - - - -	13	367
Rock- - - - -	2	369
Sand- - - - -	10	379
Rock- - - - -	2	381
Set 381 feet of 8 $\frac{1}{4}$ inch casing with bottom 3 joints perforated, 359 feet of 4 inch tubing, and 339 feet of 1 inch air line.		

Driller's log of well 566
Southport Petroleum Co. well no. 1,
Grace Utzman lease. 1 mile northeast
of Kilgore.

Shale- - - - -	25	25
Water sand- - - - -	15	40
Shale- - - - -	85	125
Water sand- - - - -	10	135
Shale- - - - -	125	260
Water sand- - - - -	8	268
Shale- - - - -	52	320
Water sand- - - - -	16	336

Driller's log of well 568
Southport Petroleum Co. well no. 3,
Grace Utzman lease. 1 $\frac{1}{2}$ miles northeast
of Kilgore.

Shale- - - - -	32	32
Water sand- - - - -	3	35
Shale- - - - -	65	100
Water sand- - - - -	5	105
Shale- - - - -	20	125
Water sand- - - - -	10	135
Shale- - - - -	110	245
Water sand- - - - -	20	265
Shale- - - - -	55	320
Water sand- - - - -	10	330
Shale- - - - -	7	337

Driller's log of well 569
Ocean Petroleum and Refining Co., Grace
Utzman lease. 1 $\frac{1}{2}$ miles northeast of
Kilgore.

Shale- - - - -	170	170
Water sand- - - - -	10	180
Shale- - - - -	105	285
Water sand- - - - -	15	300
Broken shale- - - - -	200	500
Water sand- - - - -	15	515
Broken sand- - - - -	40	555
Water sand- - - - -	20	575

Driller's log of well 607

United Gas Public Service Co, O. G.
Gray lease. 3 miles south of Longview.

	Thickness (feet)	Depth (feet)
Surface sand- - - - -	3	3
Yellow sandy clay - - - - -	34	37
Shale- - - - -	13	50
Sandy shale- - - - -	12	62
Rock- - - - -	1	63
Shale- - - - -	1	64
Rock- - - - -	1	65
Shale- - - - -	8	73
Rock- - - - -	1	74
Shale- - - - -	10	84
Sandy shale- - - - -	21	105
Fine white sand - - - - -	11	116
Sandy shale and water sand- - - - -	144	260
Sandy shale- - - - -	37	297
Sand, streaks of shale- - - - -	25	322
Sandy shale and lignite - - - - -	30	352
Sandy shale- - - - -	26	378

Records and logs of test wells drilled by W. P. A. Labor in Gregg County, Texas. Samples examined and classified by G. H. Shafer and W. M. Lyle, Project Superintendents.
Wells drilled March 2 to June 30, 1936.

Well 4

In river valley northeast corner of Floyd F. Brown 100 acre tract, John Lout Survey, $10\frac{1}{2}$ miles north of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	3	3
Yellow sand - - - - -	6	9
Struck water at 5 feet. Water level, 3 feet below top of ground, 2 hours after hole completed.		

Well 8.

On hillside, west side of Judson highway, John F. Davidson Survey, 10.2 miles north of Longview.

Gray sand- - - - -	2	2
Yellow clay- - - - -	6	8
Red sandy clay - - - - -	3	11
Yellow sandy clay- - - - -	2	13
Light yellow sand- - - - -	$\frac{1}{2}$	$13\frac{1}{2}$
Light gray sand- - - - -	$\frac{1}{2}$	14
Buff sand and clay- - - - -	1	15
Gray, pink, laminated clay- - - - -	$1\frac{1}{2}$	$16\frac{1}{2}$
Yellow sand with lentils of white sand- - - - -	1	$17\frac{1}{2}$
Light gray fine sand - - - - -	$\frac{1}{2}$	18
Light gray sand- - - - -	1	19
Water level, 16.8 feet below top of ground, 4 hours after hole completed.		

Well 9.

At base of long sloping hill, County road, southeast corner of C. H. Cooper Survey, 10 miles north of Longview.

Surface soil - - - - -	1	1
Yellow sandy clay- - - - -	9	10
Gray sandy clay- - - - -	5	15
Red sand (water) - - - - -	1	16
Brown sandy shale- - - - -	1	17
Water level, 11.4 feet below top of ground, 2 hours after hole completed.		

Well 12.

On hillside, R. B. Parter land, near southwest corner of W. P. Simpson Survey, $9\frac{1}{2}$ miles north of Longview.

White sand- - - - -	1	1
Yellow sand and clay- - - - -	6	7
Red clay- - - - -	4	11
Mottled gray and yellow sand	2	13
Dark gray sand and clay - -	3	16
Water level, 10.2 feet below top of ground, 4 hours after hole completed.		

Well 16.

Top of hill, northeast corner of Wm. Hunter 60 acre tract, Wm. J. J. Gate Survey, $8\frac{1}{2}$ miles north of Longview.

	Thickness (feet)	Depth (feet)
Gray soil- - - - -	3	3
Yellow sand- - - - -	3	6
Red clay- - - - -	3	9
Streaked red and yellow clay	1	10
Red sandy clay - - - - -	1	11
Brick red sand - - - - -	2	13
Light yellow clay and sand -	4	17
Loose yellow sand- - - - -	2	19
Light gray sand- - - - -	1	20
Buff colored fine sand - - -	$1\frac{1}{2}$	$21\frac{1}{2}$
Light gray and yellow sand-	$1\frac{1}{2}$	23
Ferruginous gray sand- - - -	1	24
Close bedded white sand- - -	4	28
Yellow and gray sand - - - -	5	33
Light gray sand- - - - -	1	34
Thin body of packed sand - -	2	36
Water level, 25.4 feet below top of ground, 84 hours after hole completed.		

Well 17.

On hillside, L. L. Mackey tract, center of west line of J. H. Goodwin Survey, $\frac{3}{4}$ miles north of Longview.

Gray sand- - - - -	1	1
Red clay - - - - -	3	4
Gray shale and red clay- - -	2	6
Hard rock- - - - -	-	6

Well 18.

Hillside, on L. L. Mackey tract, southwest corner of J. H. Goodwin Survey, $8\frac{1}{2}$ miles north of Longview.

Light gray sand- - - - -	3	3
Red and gray clay- - - - -	2	5
Dark red sandy clay- - - - -	2	7
Light buff sand- - - - -	9	15
Yellow clay- - - - -	1	17
Struck hard strata of iron rock -	-	17

Well 28.

In valley, center of south line of Mrs. R. J. Mackey 320 acre tract, D. Reed Survey, 9 miles north of Longview.

Surface soil- - - - -	3	3
Yellow water sand- - - - -	4	7
Red and gray sand- - - - -	4	11
Brown and gray sand- - - - -	1	12
Struck rock- - - - -	-	12
Water level, 3.8 feet below top of ground $2\frac{1}{2}$ hours after hole completed.		

Log of test wells in Gregg County--Continued

Well 33.

Hillside, on County road, opposite entrance (south) of colored school, $7\frac{1}{2}$ miles north of Longview.

	Thickness (feet)	Depth (feet)
White sand- - - - -	1	1
Red clay- - - - -	6	7
Red sandy clay- - - - -	1	8
Yellow sand- - - - -	4	12
Chocolate clay- - - - -	1	13
White and yellow sand- - - -	1	14
Fine light red sand- - - -	1	15
Chocolate shale- - - - -	1	16
White and yellow sand- - - -	1	17
Gray sand- - - - -	1	18
Dark brown micaceous fine grained sand- - - - -	4	22
Water level, 18.9 feet below top of ground, 40 hours after hole completed.		

Well 40

Top of hill, County road, east center of John Lout Survey, $7\frac{1}{2}$ miles north of Longview.

White sand- - - - -	1	1
Red clay- - - - -	3	4
Yellow sand- - - - -	2	6
Gray and yellow sand- - - -	2	8
Yellow sand- - - - -	1	9
Pink sand and clay- - - - -	2	11
White sand- - - - -	3	14
Yellow sand- - - - -	2	16
Gray and yellow sand- - - -	3	19
Fine yellow sand- - - - -	2	21
Chocolate clay- - - - -	4	25
Struck rock- - - - -	-	25

Well 46

In valley, Ogie Hiatt tract, southeast corner of Henry Hathaway Survey, $6\frac{1}{2}$ miles north of Longview.

Surface soil- - - - -	2	2
Yellow sand- - - - -	3	5
Brown sand- - - - -	1	6
Gray sand- - - - -	2	8
Struck rock at 8 feet.		

Well 47

In valley, Ogie Hiatt tract, southeast corner of Henry Hathaway Survey, $6\frac{1}{2}$ miles north of Longview.

Surface soil- - - - -	2	2
Brown sand- - - - -	2	4
Light gray water sand- - - -	3	7
Blue gumbo and clay- - - - -	5	12
Red and gray sand- - - - -	5	17

Well 47--Continued

	Thickness (feet)	Depth (feet)
Blue gumbo- - - - -	3	20
Black shale- - - - -	2	22
Water level, 5.3 feet below top of ground, $1\frac{1}{2}$ hours after hole completed.		

Well 52

On hilltop, County road, southeast corner of William Price Survey, 7 miles north of Longview.

Surface sand- - - - -	1	1
Dark yellow clay- - - - -	1	2
Red and gray clay- - - - -	4	6
Gray clay- - - - -	3	9
Yellow and gray clay- - - -	1	10
Dark gray clay- - - - -	4	14
Light yellow sand- - - - -	1	15
Buff sand- - - - -	1	16
Gray clay with white sand	1	17
Water level, 15 feet below top of ground, 5 hours after hole completed.		

Well 68

Hillside, County road, west central part of John Lout Survey, $6\frac{3}{4}$ miles north of Longview.

White and yellow sand streaks	1	1
Red sandy clay- - - - -	5	6
Mottled, sandy, red and yellow clay- - - - -	1	7
Sandy clay and gray shale	1	8
Yellow sand- - - - -	1	9
Dark yellow sandy clay- - -	2	11
Light yellow fine sand- - -	3	14
Rock- - - - -	-	14

Well 69

Hillside, near center of east line of Rembert National Bank 50 acre tract, James F. Dixon Survey, 6 miles north of Longview.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	5	7
Yellow sand- - - - -	1	8
Light yellow sand- - - - -	2	10
White sand- - - - -	4	14
Fine yellow sand- - - - -	1	15
Gray and yellow sand- - - -	2	17
Light yellow sand- - - - -	4	21
Brown shale- - - - -	3	24
Blue shale- - - - -	3	27
Brown and gray sand with streaks of lignite- - - -	2	29
Water level, 18.6 feet below top of ground, $1\frac{1}{2}$ hours after hole completed.		

Logs of test wells in Gregg County--Continued

Well 79

Hillside, northeast corner of L. L. Mackey tract on P. P. Rains Survey, $4\frac{1}{2}$ miles north of Longview.

	Thickness (feet)	Depth (feet)
Gray surface sand- - - - -	1	1
Dark red clay- - - - -	3	4
Light red clay - - - - -	3	7
Fine white sand and gravel	2	9
White sand and yellow clay	1	10
Gray shaley clay with red streaks, fragments of im-		
pure glauconite- - - - -	4	14
Struck hard rock strata -	-	14

Well 80

Hillside, center south line of J. L. Henderson tract, P.P. Rains Survey, $4\frac{1}{4}$ miles north of Longview.

Gray sand- - - - -	1	1
Yellow and buff clay - -	8	9
Fine gray sand - - - - -	1	10
Red sand- - - - -	3	15
White sand - - - - -	1	14
Water level, 11.9 feet below top of ground, 52 hours after hole completed.		

Well 81

Hillside, southwest corner J. L. Henderson tract, P. P. Rains Survey, $4\frac{1}{2}$ miles north of Longview.

Dark gray sand- - - - -	1	1
Red clay and gravel - - -	3	4
Light gray sand and clay-	2	6
Yellow sand- - - - -	1	7
Gray clay and sand- - - -	3	10
Fine yellow sand- - - - -	2	12
Water level, 9.5 feet below top of ground, $5\frac{1}{2}$ hours after hole completed.		

Well 84

Valley, County road, 300 feet west of abandoned railroad, in Daniel Benton Survey, $5\frac{1}{2}$ miles north of Longview.

Red clay- - - - -	1	1
Yellow sand - - - - -	7	8
Gray clay - - - - -	4	12
Yellow sand - - - - -	4	16
Water level, 12 feet below top of ground, $3\frac{1}{2}$ hours after hole completed.		

Well 86

Hillside, County road, southeast corner Daniel Benton Survey, 5 miles north of Longview.

White sand- - - - -	1	1
Red clay- - - - -	3	4

Well 86--Continued

	Thickness (feet)	Depth (feet)
Red sandy clay- - - - -	4	8
Chocolate clay and gray sand - - - - -	2	10
Fine white sand - - - - -	5	15
Yellow sand- - - - -	3	18
Yellow clay and sand - -	1	19
Water level, 13.2 feet below top of ground, 120 hours after hole completed.		

Well 95

Hillside, County road, northwest corner of P. P. Raines Survey, $4\frac{3}{4}$ miles north of Longview.

Mottled red and yellow clay with streaks of gray sand	4	4
Brown sand and yellow clay	4	8
Brown sandy clay, streaks of gray sand- - - - -	2	10
Chocolate clay with streaks of gray sand - - - - -	1	11
Tough black clay with some sand- - - - -	4	15
Dark brown sand - - - - -	2	17
Dark green and black glauconite- - - - -	1	18
Water level, 5.9 feet below top of ground, 18 hours after hole completed.		

Well 100

Hilltop, J. B. Lewis tract, east center of Dolores Sanchez Survey, $5\frac{1}{2}$ miles north of Longview.

Red clay and gravel- - - -	7	7
Gravel and boulders- - - -	1	8
Gray clay with streaks of red sand- - - - -	2	10
Yellow sand- - - - -	$\frac{1}{2}$	$10\frac{1}{2}$
Orange colored sand- - - -	$\frac{1}{2}$	11
Laminated gray and yellow sand- - - - -	2	13
Mottled red, yellow, and gray sand - - - - -	2	15
Pink and gray sand - - - -	2	17
Buff colored sand- - - - -	1	18
Yellow and gray sand - - -	2	20
Loose gray sand- - - - -	4	24
Purple sand- - - - -	3	27
Struck water at 27 feet- -		
Light red sand- - - - -	3	30
Water level, 25.4 feet below top of ground, 24 hours after hole completed.		

Logs of test wells in Gregg County--Continued

Well 103

Valley, southeast corner of J. E. Stone tract, Dolores Sanches Survey, 5 $\frac{1}{2}$ miles northwest of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	2	2
Quicksand, caving - - - - -	6	8

Well 104

Hillside, southwest corner of J. J. Flowellen tract, Dolores Sanches Survey 5-1/4 miles northwest of Longview.

Surface soil- - - - -	1	1
Red sand and gravel - - - - -	5	6
Yellow sandy clay and gravel	2	8
Gray shale- - - - -	4	12
Water level, 8.1 feet below top of ground, 1 $\frac{1}{2}$ hours after hole completed.		

Well 106

Hillside, R. S. McKinley tract on old Pine Tree Road, Wm. Robinson Survey, 5 $\frac{1}{2}$ miles northwest of Longview.

Red sandy clay- - - - -	2	2
Red clay and gray sand- - -	1	3
Brown clay and gray sand- -	1	4
Yellow and gray sand- - - -	1	5
Yellow sand- - - - -	2	7
Struck water at 7 feet.		
Chocolate sandy shale - - -	15	22
Brown sand - - - - -	2	24
Green sand- - - - -	1	25
Black sandy shale - - - - -	2	27
Green sand- - - - -	1	28
Brown sandy shale - - - - -	1	29
Green sand and thin layer of lignite - - - - -	4	33
Chocolate shale - - - - -	1	34
Green sand and lignite- - -	$\frac{1}{2}$	34 $\frac{1}{2}$
Brown sandy shale - - - - -	2	36 $\frac{1}{2}$
Brown sand- - - - -	2	38 $\frac{1}{2}$
Chocoate shale with thin layer of brown sand - - -	4	42 $\frac{1}{2}$
Water level, 4.7 feet below top of ground, 18 hours after hole completed.		

Well 113

Hillside, near southwest corner of J. G. McGrade farm, Dolores Sanches Survey, 6 $\frac{1}{2}$ miles northwest of Longview.

Surface sand- - - - -	2	2
Brown clay- - - - -	6	8
Brown shale - - - - -	1	9
Water level, 4.4 feet below top of ground, 1 $\frac{1}{4}$ hours after hole completed.		

Well 114.

Hillside, J. G. McGrade farm, Dolores Sanches Survey, 6 $\frac{1}{2}$ miles northwest of Longview.

	Thickness (feet)	Depth (feet)
Surface sand- - - - -	8	8
White water sand- - - - -	1	9
Buff shale- - - - -	3	12
Water level, 6 feet below top of ground, 3 hours after hole completed.		

Well 122.

Hilltop, southwest corner of R. K. Johnson tract, Dolores Sanches Survey, 5 miles northwest of Longview.

Red sand- - - - -	5	5
Red sandy clay- - - - -	3	8
Yellow sand- - - - -	6	14
Brown sand- - - - -	2	16
Light brown sand- - - - -	6	22
Light yellow sand - - - -	5	28
Yellow sand - - - - -	2	30
Struck water at 22 feet.		
Water level, 22.2 feet below top of ground, 25 minutes after hole completed.		

Well 125.

Hilltop, center of W. L. Bussey 62 acre tract, Dolores Sanches Survey, 4-3/4 miles northwest of Longview.

White sand- - - - -	1	1
Yellow clay - - - - -	5	6
Red and gray clay - - - -	2	8
Brown shale - - - - -	5	13
Red sand- - - - -	2	15
Yellow sand - - - - -	3	18
Brown and gray shale- - -	1	19
Yellow and white sand - -	1	20

Well 128.

Valley, W. H. Whitley tract, P. P. Rains Survey, 4-3/4 miles northwest of Longview.

Surface soil- - - - -	1	1
Red and blue sand - - - -	2	3
Red sand- - - - -	9	12
Yellow sand - - - - -	1	13
Hard rock at 13 feet.		
Water level, 2.3 feet below top of ground, 1 hour after hole completed.		

Well 130.

Hillside, County road, southwest corner P. P. Rains Survey, 3 $\frac{1}{4}$ miles north of Longview.

White sand- - - - -	2	2
Red clay- - - - -	2	4

(Continued next page)

Logs of test wells in Gregg County--Continued

Well 130--Continued

	Thickness (feet)	Depth (feet)
Red clay and gray sand- - - -	2	6
Stratified sand- - - - -	3	9
Brown sand and clay with streaks of glauconite- - - -	2	11
Chocolate clay and white sand	2	13
Dark green to black glauconite	3	16
Struck hard rock- - - - -	-	16
Water level, 10.1 feet below top of ground, 2½ hours after hole completed.		

Well 135

Near top of hill, Finch road, 25 yards east of railroad, southeast corner of P. P. Rains Survey, 2½ miles north of Longview.

White sand- - - - -	1	1
Red clay- - - - -	8	9
Red clay with layers of gray sand- - - - -	1	10
Yellow marly clay and gray sand	2	12
Dark brown clay and white sand	1	13
Light gray and yellow sand- -	1	14
Yellow sand- - - - -	1	15
Dark gray and yellow sand - -	1	16
Hard white sand- - - - -	1	17
Hard red sand- - - - -	1	18
Yellow sand- - - - -	1	19
Streaked yellow and gray sand	1	20
Dark green sand- - - - -	1	21
Black silty lignite - - - - -	3	24
Dark hard sand - - - - -	5	29
Blue shale- - - - -	9	38
Blue shale and soapstone- - -	17	55
Brown sand- - - - -	1	56
Water level, 17.3 feet below top of ground, 60 hours after hole completed.		

Well 141

Hillside, Mrs. W. H. Toler tract southeast corner Wm. Robinson Survey, 3½ miles northwest of Longview.

Surface soil- - - - -	2	2
Yellow clay - - - - -	2	4
Thin layer of iron rock, red clay with streaks of sand- -	3	7
Red sand- - - - -	3	10
White sand- - - - -	3	13
Struck water at 11 feet.- -	-	-
Glauconitic yellow sand- - -	5	18
Red and gray shale in thin streaks- - - - -	2	20
Brown sand- - - - -	2	22
Water level, 12.5 feet below top of ground, 18 hours after hole completed.		

Well 144

Top of hill, Campbell road, Wm. Lamb tract, David Ferguson Survey, 3 miles northwest of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	2	2
Yellow clay - - - - -	2	4
Red clay, with thin layer of sand rock - - - - -	3	7
Red sandstone- - - - -	6	13
Yellow and white sand- - -	6	19
Red sand with thin lenses of white shale- - - - -	3	22
Pink and yellow sand - - -	2	24
Struck water at 22 feet. -	-	-
Yellow sand- - - - -	4	28
Chocolate shale- - - - -	2	30
Water level, 22.7 feet below top of ground, 72 hours after hole completed.		

Well 145

Hill slope, E. C. Kelly 101 acre tract, William Robinson Survey, 3½ miles northwest of Longview.

Surface soil- - - - -	2	2
Yellow and gray clay- - -	4	6
Red and gray sandy clay -	1	7
Yellow sandy clay- - - -	2	9
Blue shale- - - - -	1	10
Yellow sand - - - - -	1	11
Blue shale- - - - -	5	16
Yellow and white sand - -	1	17
White sand- - - - -	2	19
Blue shale- - - - -	2	21
White and yellow sand - -	2	23
Brown shale- - - - -	1	24
White sand - - - - -	2	26
Water level, 20.8 feet below top of ground.		

Well 146

Hilltop, county road, north center of David Robinson Survey, 3½ miles northwest of Longview.

White surface sand- - - -	2	2
Red clay- - - - -	1	3
Gravel and boulders - - -	1	4
Red and gray shale - - -	3	7
Yellow and gray sand- - -	2	9
Chocolate shale with thin layers of sand- - - - -	4	13
Brown sand and clay - - -	1	14
Streaked yellow and gray sand- - - - -	1	15
Sand rock- - - - -	1	16
Yellow sand and boulders-	2	18
Struck hard rock- - - - -	-	18
No water.		

Logs of test wells in Gregg County--Continued

Well 148

Hillside, John Schromer 25 acre tract,
David Ferguson Survey, 3-3/4 miles north-
west of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	2	2
Yellow sandy clay - - - - -	2	4
Yellow and gray sand- - - - -	3	7
Brown sandy clay- - - - -	2	9
Red and gray clay - - - - -	2	11
Gray sandy clay (water) - - - - -	4	15
Yellow and gray sand- - - - -	3	18
Fine yellow sand- - - - -	2	20
Water level, 9.3 feet below top of ground, 1 1/2 hours after hole completed.		

Well 149

Hillside, southwest corner E. F. Real
55 acres, David Ferguson Survey, 3-3/4
miles northwest of Longview.

Surface soil- - - - -	2	2
Yellow sandy clay - - - - -	2	4
Hard clay- - - - -	2	6
Red and gray clay - - - - -	2	8
Yellow and gray sandy clay with some gravel - - - - -	2	10
Fine yellow and gray sand - - - - -	2	12
Fine yellow sand (water) - - - - -	2	14
Water at 12 feet.		
Red and gray gummy clay - - - - -	1	15
Brown sandy shale- - - - -	1	16
Fine red sand- - - - -	1	17
Fine yellow sand- - - - -	4	21
Water level, 10.8 feet below top of ground, 2 1/2 hours after hole completed.		

Well 151

Hillside, center of east line of F. K.
Lathrop 126 acre tract, Wm. Robinson
Survey, 5 miles northwest of Longview.

Surface soil- - - - -	2	2
Red clay- - - - -	3	5
Red sand and gray shale - - - - -	2	7
Yellow sand - - - - -	9	16
Brown shale - - - - -	-	16
No water.		

Well 157

Hilltop, center of south line of T. W.
Lee tract, Wm. Robinson Survey, 4 miles
northwest of Longview.

White surface sand- - - - -	2	2
Yellow sandy clay - - - - -	3	5
Red sand- - - - -	4	9
Struck hard sand- - - - -	1	10
No water.		

Well 158

Hillside, W. M. Customs tract, north-
west corner of Isaac Skillern Survey,
5 miles west of Longview.

	Thickness (feet)	Depth (feet)
White sand- - - - -	1	1
Yellow clay - - - - -	4	5
Red clay- - - - -	6	11
Red and white clay- - - - -	2	13

Well 163

Hillside, C. F. Miles tract, northwest
corner Hamilton McNutt Survey, 1 mile
northwest of Longview.

Gray surface sand- - - - -	1	1
Yellow sandy clay- - - - -	4	5
Brown and gray sand- - - - -	1	6
Red clay and gray sand - - - - -	2	8
Yellow and gray sand- - - - -	2	10
Gray clay and yellow sand - - - - -	1	11
Yellow water sand- - - - -	1	12
Yellow and white sand- - - - -	2	14
Water level, 10.1 feet below top of ground, 5 hours after hole completed.		

Well 168

Edge of valley, R. H. Stile tract,
north center of J. W. Yates Survey, 1 1/2
miles north of Longview.

Red clay- - - - -	2	2
Yellow sand - - - - -	2	4
Red sand and gravel - - - - -	1	5
Red clay and gray sand- - - - -	3	8
White and yellow sand - - - - -	1	9
Red clay and gray sand- - - - -	1	10
Fine white sand- - - - -	1	11
Ironstone, gravel and sand - - - - -	2	13
Hard rock- - - - -	-	13
Water level, 9.9 feet below top of ground, 72 hours after hole completed.		

Well 170

Valley edge, R. H. Stile tract, south
center of J. W. Yates Survey, 1 1/2 miles
north of Longview.

Red clay- - - - -	4	4
Yellow sand - - - - -	2	6
Red clay and white sand - - - - -	1	7
Gray sandy clay - - - - -	1	8
Chocolate clay and sand - - - - -	2	10
Brown and gray sand - - - - -	2	12
Hard rock- - - - -	-	12
Water level, 6.9 feet below top of ground, 72 hours after hole completed.		

Logs of test wells in Gregg County---Continued

Well 177

In valley, T. W. Huggins tract, H. W. Norvell Survey, $2\frac{1}{2}$ miles southeast of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	2	2
Yellow sand - - - - -	2	4
Yellow white sand - - - - -	4	8
Dark red sand - - - - -	2	10
Light red sand- - - - -	2	12
Water level, 7.4 feet below top of ground, $2\frac{1}{2}$ hours after hole completed.		

Well 179

Hilltop, T. D. Casshill tract, Hamilton McNutt Survey, 1,000 feet northeast of Longview courthouse.

Brown sand- - - - -	3	3
Red clay- - - - -	4	7
Brown clay- - - - -	4	11
Brown sand- - - - -	5	16
Water level, 9.4 feet below top of ground, $1\frac{1}{2}$ hours after hole completed.		

Well 183

Hilltop, E. C. Wols Estate, southeast part of Isaac Skillern Survey, $\frac{3}{4}$ mile west of Longview.

Surface soil- - - - -	1	1
Red clay- - - - -	3	4
Red sandy clay- - - - -	2	6
Red sand- - - - -	1	7
Yellow and gray sand- - - - -	4	11
Brown shale - - - - -	6	17
Red sand- - - - -	4	21
Struck rock - - - - -	-	21

Well 184

Hillside, southwest corner of east part of E. C. Wols Estate tract, near southeast corner Isaac Skillern Survey, $\frac{3}{4}$ mile west of Longview.

Red sand- - - - -	4	4
Gray sand - - - - -	1	5
Yellow sand - - - - -	4	9
Brown sand- - - - -	2	11
Purple sand - - - - -	6	17
Black shale- - - - -	11	28
Brown sand- - - - -	1	29
Dark gray sand- - - - -	5	34
Water level, 21.0 feet below top of ground, 2 hours after hole completed.		

Well 187

Hillside, M. J. Trotter or A.B.C. Tourist Camp tract, Dora Simmons lease, Isaac Skillern Survey, $1\frac{1}{2}$ miles west of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	1	1
Yellow sandy clay - - - - -	3	4
Glaucanite, sandy clay with iron concretions - - - - -	4	8
Brown sandy clay and gravel	5	13
Silty black sand - - - - -	3	16
Light green sand- - - - -	2	18
Brown and gray sand with limestone rock- - - - -	1	19
Green sand- - - - -	4	23
Struck hard rock- - - - -	-	23

Well 190

Hillside, Dora Simmons tract, near A.B.C. Tourist Camp, Isaac Skillern Survey, 1 mile west of Longview.

Sandy soil- - - - -	2	2
Red sandy clay- - - - -	3	5
Yellow glauconitic sand- - - - -	8	13
Gray shale- - - - -	2	15
White water sand- - - - -	3	18

Well 197

Valley, Mrs. A. T. Castleberry tract, Isaac Skillern Survey, $4\frac{1}{2}$ miles west of Longview.

Surface sand- - - - -	7	7
Clay- - - - -	2	9
Water sand- - - - -	3	12

Well 198

Hilltop, northwest corner, Mrs. A. T. Castleberry tract, Isaac Skillern Survey, $4\frac{1}{2}$ miles west of Longview.

Surface sand- - - - -	4	4
White and yellow sand - - - - -	12	16
Fine dry yellow sand- - - - -	3	19
Hard sand- - - - -	1	20

Well 203

Hillside, County road on Upshur-Gregg County line, northeast center of G. W. Hooper Survey, $6\frac{1}{2}$ miles northeast of Glalwater.

Red clay and gravel- - - - -	6	6
Red sand- - - - -	2	8
Yellow sand - - - - -	2	10
Yellow and red sand - - - - -	2	12
Pink and yellow sand- - - - -	2	14
Brown sand and gravel - - - - -	1	15
Pink and red sand- - - - -	2	17

(Continued on next page)

Logs of test wells in Gregg County--Continued

Well 203--Continued

	Thickness (feet)	Depth (feet)
Glauconitic sand and iron rock- - - - -	2	19
Yellow and gray sand and boulders- - - - -	-	19

Well 207

Near top of hill, H. M. Lawrence tract,
south center of David Ferguson Survey,
3 $\frac{1}{2}$ miles north of Gladewater.

Black soil- - - - -	2	2
Red clay- - - - -	2	4
Fine orange sand- - - - -	4	8
Dark yellow sand rock - - - -	4	12
Hard rock- - - - -	-	12

Well 211

Hillside, Rosa Corbin tract, northwest-
ern part of Haden Edwards Survey, 2
miles northeast of Gladewater.

Gray soil- - - - -	1	1
Mottled red and yellow clay and gravel- - - - -	2	3
Red and gray laminated clay- -	2	5
Yellow sand with stringers of glauconite- - - - -	1	6
Water at 14 feet.		
Brown sand- - - - -	18	24
Brown sand and lignite - - -	8	32
Chocolate shale- - - - -	2	34
Brown sand- - - - -	3	37
Brown sandy shale - - - - -	1	38
Green sand - - - - -	1	39
Chocolate shale and sand - -	2	41
Green sand - - - - -	3	44
Chocolate sandy shale- - - -	1	45
Hard rock- - - - -	-	45

Water level, 14.8 feet below top of
ground, 3 hours after hole completed.

Well 212

In valley, Rosa Corbin tract, northwest-
ern part of Haden Edwards Survey, 2 $\frac{1}{2}$
miles northeast of Gladewater.

Surface soil- - - - -	1	1
Brown sand- - - - -	3	4
Red and gray laminated clay	4	8
Yellow and gray sand - - - -	2	10
Gray sand - - - - -	1	11
Yellow gray sand- - - - -	2	13
Dark gray sand- - - - -	1	14
Yellow and brown sand - - -	1	15
Brown sand- - - - -	1	16
Yellow sand - - - - -	2	18

Well 212--Continued

	Thickness (feet)	Depth (feet)
Gray sand- - - - -	1	19
Water in yellow and gray sand at 10 feet.		
Water level, 3.7 feet below top of ground, 120 hours after hole completed.		

Well 213

Hillside, Rosa Corbin tract, in south-
west center Haden Edwards Survey, 2
miles northeast of Gladewater.

Surface soil and brown sand	1	1
Red clay and gravel- - - - -	4	5
Yellow clay and some sand- -	2	7
Yellow and red sand- - - - -	2	9
Red sand- - - - -	1	10
Yellow sand- - - - -	4	14
Yellow and gray sand - - - -	4	18
Yellow sand- - - - -	8	26
Water at 20 feet in yellow sand- - - - -		
Brown sand and lignite - - -	3	29
Shale- - - - -	9	38
Brown to black carbonaceous shale- - - - -	6	44
Hard rock- - - - -	-	44
Water level, 19.6 feet below top of ground, 24 hours after hole completed.		

Well 217

Hillside, County road, southeast center
of Haden Edwards Survey, 2 $\frac{1}{2}$ miles east
of Gladewater.

Surface sand- - - - -	2	2
Yellow sand and clay- - - -	4	6
Red clay with some sand - -	2	8
Sand- - - - -	4	12
Red sand- - - - -	2	14
Yellow sand - - - - -	2	16
Yellow and gray sand- - - -	2	18
Light yellow sand - - - - -	4	22
Yellow and gray sand- - - -	3	25
Water sample at 22 feet.		
Yellow sand- - - - -	2	27
Brown shale - - - - -	1	28
Yellow and gray sand- - - -	1	29
Water level, 22.6 feet below top of ground, 50 hours after hole completed.		

Well 229

Hillside, County road, southwest corner
G. W. Hooper Survey, 4-3/4 miles east of
Gladewater.

White surface sand- - - - -	2	2
Yellow sandy clay, seep water	3	5
Red and gray sand- - - - -	2	7

(Continued next page)

Logs of test wells in Gregg County--Continued

Well 229--Continued

	Thickness (feet)	Depth (feet)
Yellow sand- - - - -	2	9
Red sandy clay - - - - -	3	12
Blue sandy shale - - - - -	3	15
Yellow and gray sand - - - -	4	19
Iron gravel at 18 feet.		
Light brown sand- - - - -	1	20
Red sand- - - - -	5	25
Water at 21 feet.		
Yellow sand- - - - -	3	28
Dark brown sand- - - - -	1	29

Well 234

Hillside, opposite center of the south line of T. D. Davis tract, William Robinson Survey, 6-3/4 miles east of Gladewater.

Surface soil- - - - -	2	2
Red clay- - - - -	4	6
Yellow red sand - - - - -	2	8
Fine red sand - - - - -	5	13
Fine yellow sand- - - - -	5	18
Brown sand with sand rock - -	4	22
Fine yellow sand- - - - -	7	29
White and pink sand - - - - -	4	33
Yellow sandy clay - - - - -	3	36
White and yellow water sand -	4	40
Water level, 36.4 feet below top of ground, 2 1/2 hours after hole completed.		

Well 235

Valley, southeast corner of J. T. Hopkins 173 acre tract, Wm. Castleberry Survey, 5-3/4 miles east of Gladewater.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	4	6
Red and gray sandy clay - - -	1	7
Yellow sandy clay - - - - -	1	8
White and brown sand- - - - -	1	9
Red and white sand- - - - -	1	10
Red and brown sand- - - - -	1	11
Red sand- - - - -	2	13
White sand- - - - -	1	14
Black sand- - - - -	2	16
Brown sand- - - - -	2	18
Water level, 4.1 feet below top of ground, 2 1/2 hours after hole completed.		

Well 236

Hillside, on center of north line of J. B. Doby 57 acre tract, Wm. Castleberry Survey, 5 1/2 miles east of Gladewater.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	3	5
Red and blue gumbo clay - - -	1	6
Water level, 3.1 feet below top of ground, 1 1/2 hours after hole completed.		

Well 237

Hillside, L. E. Person tract, center Wm. Castleberry Survey, 5-3/4 miles east of Gladewater.

	Thickness (feet)	Depth (feet)
Surface red clay- - - - -	2	2
Yellow glauconitic sand- - -	3	5
Red sandy clay- - - - -	3	8
Pink sand- - - - -	2	10
White sand- - - - -	1	11
Yellow sand, water- - - - -	1	12
Brown sand- - - - -	6	18
Light yellow sand - - - - -	4	22
Brown sand and shale- - - -	2	24
Brown shale and green sand	6	30
Green sand, friable - - - -	1	31
Struck hard rock- - - - -	-	31
Water level, 12.9 feet below top of ground, 24 hours after hole completed.		

Well 248

Valley, center of east line of M. Turner tract, W. G. Wakeland Survey, 3-3/4 miles east of Gladewater.

Surface soil- - - - -	2	2
Brown sand, water - - - - -	6	8
Brown sand with streaks of yellow sand- - - - -	4	12
Blue gumbo- - - - -	2	14
Blue gumbo and brown sand	4	18
Blue sand - - - - -	2	20
Dark brown sand - - - - -	2	22
Green sand- - - - -	2	24
Fine white sand - - - - -	4	28
Water level, 3.6 feet below top of ground, 3 hours after hole completed.		

Well 249

Hillside, center of M. Turner tract, 300 feet northwest of test 248, W. G. Wakeland Survey, 3-3/4 miles east of Gladewater.

Surface soil- - - - -	2	2
Brown sand- - - - -	2	4
Yellow sandy clay - - - - -	3	7
Red clay with streaks of gray sand- - - - -	3	10
Brown sandy shale - - - - -	7	17
Gray sand - - - - -	4	21
Brown sand- - - - -	2	23
Brown shale - - - - -	2	25
Green sand- - - - -	1	26
Brown sandy shale - - - - -	2	28
Water level, 6.2 feet below top of ground, 1 1/2 hours after hole completed.		

Logs of test wells in Gregg County--Continued

Well 273

Hillside, County road across from Joe Bender house, Wm. Castleberry Survey, $4\frac{1}{2}$ miles east of Gladewater.

	Thickness (feet)	Depth (feet)
White sand- - - - -	2	2
Yellow clay and red sand- - -	2	4
Red sand- - - - -	2	6
Sandy clay streaked with red and gray - - - - -	3	9
Gray sandy shale, iron stains	2	11
Light brown sand- - - - -	2	13
Purple sand and gray shale- -	1	14
Chocolate shale - - - - -	4	18
Laminated gray yellow sand- -	1	19
Light yellow sand - - - - -	1	20
Thin layer of rock.		
Yellow and gray sand- - - - -	7	27
Purple and yellow sand- - - -	1	28
Light brown sand- - - - -	3	31
Yellow sand- - - - -	3	34
Purple sand- - - - -	1	35
Red sand, water - - - - -	1	36
Buff sand- - - - -	2	38
Yellow sand - - - - -	1	39
Well sanded up.		

Well 277

Valley flat, Hawkins Creek road, Snider and Lacey tract, Wm. Castleberry Survey, 6 miles east of Gladewater.

Surface sand- - - - -	2	2
Coarse white sand - - - - -	2	4
Coarse brown sand and gravel, water- - - - -	3	7
Green sand, shale, and lignite	12	19
Water level, 3 feet below top of ground, 4 hours after hole completed.		

Well 282

Valley, southwest corner of S. G. and Maud Smith 180 acre tract, Wm. Robinson Survey, $6\frac{3}{4}$ miles east of Gladewater.

Black surface sand- - - - -	4	4
Yellow clay and sand- - - - -	12	16
Water level, 6.1 feet below top of ground, 3 hours after hole completed.		

Well 283

Valley, 150 feet southwest of test 282, Wm. Robinson Survey, $6\frac{3}{4}$ miles east of Gladewater.

Surface soil- - - - -	2	2
Brown sand- - - - -	3	5
Gray sand - - - - -	6	11

Well 283--Continued

	Thickness (feet)	Depth (feet)
Brown and gray sand- - - - -	3	14
Dark brown shale- - - - -	4	18
Water level, 3.8 feet below top of ground, $1\frac{1}{2}$ hours after hole completed.		

Well 286

River valley, County road near J. M. Adam tract, John Ruddle Survey, $6\frac{3}{4}$ miles southeast of Gladewater.

Surface soil- - - - -	1	1
Red and gray mottled clay with alternating thin beds of sand	7	8
Fine white yellow sand- - -	4	12
Fine yellow sand- - - - -	2	14
Fine yellow and gray sand -	3	17
Brown and gray shale- - - -	3	20
Gray sandy shale- - - - -	1	21
Struck rock- - - - -	-	21

Well 287

Valley, 200 feet south of dam and T. & P. RR., John Ruddle Survey, $6\frac{1}{2}$ miles east of Gladewater.

Brown sand- - - - -	3	3
Hard rock - - - - -	-	3
Water level, 2.1 feet below top of ground, 2 hours after hole completed.		

Well 403

River valley, County road, 35 yards east of A. A. King oil well "A" No. 12, Alex. Cormack Survey, $5\frac{1}{4}$ miles north of Kilgore.

Surface gray sand- - - - -	4	4
Red clay with streaks gray sand	3	7
Gray and yellow sand - - - -	2	9
Light gray sand - - - - -	4	13
Blue sandy shale - - - - -	3	16
Gray loose sand, water - - -	6	22
Green sand- - - - -	2	24
Hard rock- - - - -	-	24

Well 414

Near hilltop, on Swamp City road, by E.L. Walker tract, W. W. Frear Survey, 8 miles northwest of Kilgore.

Top soil- - - - -	2	2
Red clay, loose iron rock in layers- - - - -	2	4
Red sandy clay with thin layers of gray sand- - - - -	2	6
Very fine yellow sand, slightly micaceous- - - - -	3	9
Brown sand - - - - -	5	14
Hard rock- - - - -	-	14

Logs of test wells in Gregg County--Continued

Well 415

Gently sloping hill, on Swamp City Road, 1 mile east of Kilgore-Gladewater Highway, by Mrs. E. T. Walker tract, W. W. Frear Survey, $8\frac{1}{2}$ miles northwest of Kilgore.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	1	1
Red clay - - - - -	3	4
Red sandy clay- - - - -	1	5
Red and gray sandy clay - -	1	6
Brown sand - - - - -	3	9
Red sand and gravel - - -	1	10
Fine brown sand with thin ledge of iron rock- - - -	4	14
Hard rock- - - - -	-	14

Well 420

Side of steep hill, on highway, by T. M. Sikes tract, Bailey Anderson Survey, $6\frac{1}{4}$ miles northwest of Kilgore.

Surface soil- - - - -	1	1
Fine yellow sand- - - - -	3	4
Brown and gray sand - - -	1	5
Yellow and gray sand- - -	1	6
Fine red sand - - - - -	2	8
yellow glauconitic sand - -	1	9
Fine white and red sand - -	2	11
Fine brown sand - - - - -	3	14
Red and gray sand - - - -	2	16
Fine red sand- - - - -	2	18
Chocolate shale with streaks of gray sand- - - - -	1	19
Gray sandy clay- - - - -	1	20
Yellow and red sand - - -	2	22
Yellow and gray sand- - -	4	26
Fine yellow sand slightly cemented- - - - -	2	28
Gray sticky sandy clay- - -	2	30
Light gray sand - - - - -	3	33
Brown sandy shale - - - -	2	35
Fine brown sand- - - - -	1	36
Green sand- - - - -	1	37
Yellow and gray sand- - -	1	38
Fine brown and gray sand- -	5	43
Fine brown and pink sand with little gray micaceous shale, water- - - - -	6	49
Brown and yellow sand with thin layers of gray shale	2	51
Fine brown and gray sand- -	1	52
Water level, 33.5 feet below top of ground, 6 days after hole completed.		

Well 429

Near top of hill, County road, 25 feet east of Calvin Brown Oil well No. 9, L. B. Outlaw Survey, 4 miles north of Kilgore.

	Thickness (feet)	Depth (feet)
Red clay- - - - -	4	4
Red sandy clay- - - - -	1	5
Red and gray sand - - -	2	7
Yellow sand and gray shale	2	9
Dry brown shale with layers of yellow sand- - - - -	15	24
Dark brown shale, weathers blue and gray- - - - -	5	29
Brown sand with streaks of green sand- - - - -	4	33
Brown shale with thin lay- ers of green sand - - -	2	35
Brown sandy shale, water-	3	38
Water level, 16.2 feet below top of ground, 24 hours after hole completed.		

Well 434

Near S. P. Hughes house on M. B. Hughey lease, James Hilliard Survey, 4 miles north of Kilgore.

Surface soil- - - - -	2	2
Red clay and gravel - - -	2	4
Red and gray clay, some sand	1	5
Yellow sand- - - - -	1	6
Gray sandy shale- - - - -	2	8
Red sand- - - - -	1	9
Gray sand, some brown shale	2	11
Chocolate brown shale - -	1	12
Black hard shale and lignite	1	13
Black sandy shale- - - -	2	15
Dark gray sand- - - - -	1	16
Black hard shale - - - -	2	18
Green sand- - - - -	6	24
Brown sandy shale- - - -	2	26
Fine brown sand- - - - -	2	28
Brown sandy shale with mica	2	30
Hard brown shale - - - -	3	33
Water level, 21.5 feet below top of ground, 20 hours after hole completed. Hole had gas in it. Would flame at sur- face when lighted.		

Well 437

Hillside, near Wm. Clayton land on County road, 100 yards east of Gulf-Clayton No. 3, L. B. Outlaw Survey, $2\frac{1}{2}$ miles north of Kilgore.

Surface soil- - - - -	2	2
Yellow sandy clay - - -	2	4
Red and yellow clay - - -	3	7
Gray shale- - - - -	2	9

(Continued next page)

Logs of test wells in Gregg County--Continued

Well 437--Continued

	Thickness (feet)	Depth (feet)
Yellow clay- - - - -	1	10
Fine yellow sand - - - - -	1	11
Gray sandy shale, water- - -	3	14
Gray sand and brown shale with streaks of green sand	2	16
Chocolate brown shale- - - -	2	18
Light green sand- - - - -	4	22
Black sandy shale- - - - -	4	26
Water level, 11.7 feet below top of ground, 18 hours after hole completed.		

Well 438

Hillside, on Goforth road, about 50 yards east of oil well No. 35, on G. P. Hilburn tract, L. B. Outlaw Survey, 2-3/4 miles north of Kilgore.

Surface soil- - - - -	1	1
Yellow clay - - - - -	2	3
Yellow and red clay - - - -	1	4
Red clay and gray sand- - -	1	5
Clay and sand- - - - -	2	7
Red and gray clay and iron gravel- - - - -	1	8
Gray shale- - - - -	2	10
Red and gray clay - - - - -	4	14
Gray shale with ferruginous stains- - - - -	2	16
Yellow glauconitic sand - -	2	18
Gray shale, ferruginous stains- - - - -	1	19
Chocolate shale with thin lay- ers of gray sand and stringers of glauconite - - - - -	4	23
Yellow sandy clay with iron- stone gravel- - - - -	1	24
Chocolate shale- - - - -	2	26
Brown sandy shale- - - - -	4	30
Brown shale with streaks of green sand- - - - -	2	32
Struck hard rock - - - - -	-	32
Water at 23 feet.		

Water level, 20.1 feet below top of
ground, 24 hours after hole completed.

Well 449

On Tom Bell road, 100 yards west of A.A. King Oil well No. 5, Margaret Tenison Survey, 3-3/4 miles northwest of Kilgore.

Surface soil- - - - -	1	1
Red sandy clay- - - - -	3	4
Red sand- - - - -	4	8
Yellow sand with thin layers of gray shale- - - - -	1	9
Red sand with streaks of gray shale- - - - -	3	12

Well 449--Continued

	Thickness (feet)	Depth (feet)
Fine yellow sand- - - - -	4	16
Yellow and gray sand- - -	1	17
Red and gray sand - - - -	2	19
Yellow and gray sand, water	5	24
Fine brown sand- - - - -	3	27
Brown shale with streaks of green sand- - - - -	2	29
Brown sandy shale with some lignite- - - - -	5	34
Yellow and gray sand with thin streaks of brown shale	1	35
Brown shale with thin layers of white sand- - - - -	1	36
Brown and white sand with thin streaks of brown shale	2	38
Water level, 17.3 feet below top of ground, 18 hours after hole completed.		

Well 453

East slope of hill, Spints-Chapman $\frac{1}{2}$ mile east of Liberty City, Thos. Betts Survey, 5.25 miles northwest of Kilgore.

Top soil, yellow glauconite and sandy clay- - - - -	4	4
Yellow and gray sandy clay	2	6
Light pink and gray sand -	1	7
Red sand- - - - -	1	8
Red and gray sand- - - - -	2	10
Red sand - - - - -	3	13
Red sand with streaks of gray sand - - - - -	2	15
Yellow sand, water - - - -	2	17
Brown sandy shale and lignite	6	23
Chocolate shale and sand- -	4	27
Brown sand - - - - -	4	31
Green sand- - - - -	3	34
Blue sandy shale- - - - -	2	36
Green sand and shale- - - -	1	37
Water level, 14 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		

Well 461

On side of long sloping hill, Goforth road, opposite Shell- M.H. Bivens lease, W. P. Chisum Survey, 2 $\frac{1}{2}$ miles northwest of Kilgore.

Surface soil- - - - -	1	1
Red clay- - - - -	2	3
Red sandy clay- - - - -	2	5
Brown sandy clay- - - - -	1	6
Gray calcareous clay- - - -	1	7
Chocolate shale with ferru- ginous stains- - - - -	11	18
Water at 14 feet.		

(Continued next page)

Logs of test wells in Gregg County--Continued

Well 461--Continued

	Thickness (feet)	Depth (feet)
Dark brown shale- - - - -	6	24
Dark brown shale with thin layers of brown sand - - -	2	26
Brown shale and streaks of green sand- - - - -	5	31
Dark brown shale with layers of lime- - - - -	$\frac{1}{2}$	31 $\frac{1}{2}$
Green sand and silt- - - -	$\frac{1}{2}$	32
Brown shale and green sand	1	33
Brown sand and shale - - -	1	34
Brown shale with streaks of green sand- - - - -	2	36
Water level, 4.7 feet below top of ground, 24 hours after hole completed.		

Well 472

Hilltop, southeast corner of A. G. Spear
tract, Mary Van Winkle Survey, $\frac{1}{2}$ mile
west of Kilgore.

Surface soil- - - - -	1	1
Gray sand- - - - -	3	4
Yellow sand - - - - -	2	6
Brown shale- - - - -	2	8
Yellow clay - - - - -	2	10
Green sand- - - - -	2	12
Water level, 6.2 feet below top of ground, 1 $\frac{1}{2}$ hours after hole completed.		

Well 487

Hilltop, J. R. Beall 320 acre tract,
William P. Chisum Survey, $3\frac{1}{2}$ miles west
of Kilgore.

Surface soil- - - - -	1	1
Yellow clay- - - - -	2	3
Red sandy clay- - - - -	4	7
Red and gray clay - - - -	1	8
Red and gray sand - - - -	2	10
Red sand- - - - -	1	11
Yellow and gray sand- - - -	1	12
Fine white sand - - - - -	2	14
Pink sand with streaks of gray- - - - -	2	16
Fine yellow sand, water - -	2	18
Yellow clay and sand - - - -	1	19
Brown sand- - - - -	2	21
Black shale with streaks of green sand - - - - -	5	26

Well 488

Hilltop, near northeast corner of J. R.
Beall tract, Wm. P. Chisum Survey, $3\frac{1}{2}$
miles west of Kilgore.

Red shale and sand- - - - -	6	6
Red shale and brown clay- -	4	10
Gray and red clay- - - - -	2	12

Well 488--Continued

	Thickness (feet)	Depth (feet)
Gray shale and red clay- -	2	14
Red sticky sand- - - - -	1	15
Red and gray shale - - - -	3	18
Dark red and gray shale- -	8	26
Yellow and gray shale- - -	4	30
Red sand with streaks of gray shale, water- - - - -	4	34
Gray sand- - - - -	3	37
Yellow sand- - - - -	5	42
Water level, 28.2 feet below top of ground, 1 $\frac{1}{2}$ hours after hole completed.		

Well 490

Valley, center of east line of J. Liner
farm, Wm. P. Chisum Survey, 3-3/4 miles
west of Kilgore.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	2	4
White water sand- - - - -	3	7
Red sand and shale- - - -	5	12
Sand- - - - -	5	17

Well 492

600 feet south of north line and 300
feet east of west line of J. S. Dansby
tract, A. M. Coleman Survey, $5\frac{1}{2}$ miles
west of Kilgore.

Sand- - - - -	1	1
Red sandy clay- - - - -	3	4
Brown shale - - - - -	3	7
Struck water at 6 feet.		

Well 493

500 feet east of Well 492, $5\frac{1}{2}$ miles west
of Kilgore.

Sand- - - - -	1	1
Blue sand - - - - -	7	8
Struck water at 4 feet.		

Well 501

Valley, center of T. D. Martin 28 acre
tract, Avery Johnson Survey, 2 miles
south of Longiew.

Surface soil- - - - -	2	2
Yellow sandy clay - - - -	2	4
Red clay- - - - -	4	8
Gray clay - - - - -	4	12
Yellow sand - - - - -	1	13

Water level, 5.3 feet below top of
ground, 2 hours after hole completed.

Logs of test wells in Gregg County--Continued

Well 505

1,000 feet east of west line and 200 feet south of north line, F. T. Rea farm, Manson Taylor Survey, 1-3/4 miles southwest of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	2	2
Yellow clay - - - - -	2	4
Yellow sandy clay - - - - -	1	5
Fine yellow sand- - - - -	3	8
Gray and red shale- - - - -	4	12
Gray sandy shale- - - - -	2	14
Brown shale- - - - -	3	17
Black shale- - - - -	1	18
Water level, 6.4 feet below top of ground, 3 hours after hole completed.		

Well 506

200 feet northwest of Well 505, 1-3/4 miles southwest of Longview.

Surface soil- - - - -	1	1
Red and gray clay - - - - -	4	5
Gray sandy clay - - - - -	3	8
Fine white sand - - - - -	1	9
Gray sandy shale- - - - -	1	10
Sandy clay- - - - -	1	11
Red and gray sand - - - - -	1	12
Gray sand - - - - -	1	13
Red sand- - - - -	2	15
Pink and white sand - - - - -	2	17
White sand- - - - -	1	18
Red sand- - - - -	6	24
Brown shale and sand- - - - -	2	26
Water level, 17.8 feet below top of ground, 3 hours after hole completed.		

Well 509

On sloping hill, County highway, Marshall Mann Survey, 2 miles southwest of Longview.

Surface soil- - - - -	1	1
Yellow sandy clay - - - - -	3	4
Yellow sand- - - - -	1	5
Brown sand- - - - -	-	-
Struck hard rock- - - - -	-	5

Well 510

Valley, old Kilgore-Longview highway at sand pit, Alexander McDonald Survey, 3 1/4 miles southwest of Longview.

Surface soil- - - - -	4	4
Red sandy clay- - - - -	1	5
Red and gray sand - - - - -	1	6
Gray sandy clay- - - - -	2	8
White and brown sand - - - - -	1	9

Well 510--Continued

	Thickness (feet)	Depth (feet)
Fine white sand- - - - -	4	13
Yellow sand- - - - -	2	15
Yellow and white sand- - - - -	5	20
Salt and pepper sand - - - - -	4	24
Hole caved in.		

Well 511

At sand pit near Well 510, 3 miles southwest of Longview.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	1	3
Gray shale- - - - -	2	5
Brown and gray sand - - - - -	2	7
Yellow sand - - - - -	1	8
Fine gray sand- - - - -	4	12
Gray clay and brown sand - - - - -	5	17
Coarse white sand, water - - - - -	3	20
Water level, 16.3 feet below top of ground, 1 hour after hole completed.		

Well 522

Gently sloping hill, new Kilgore-Longview highway, at southeast corner W. Clayton tract, Robt. H. Foote Survey, 6-3/4 miles southwest of Longview.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	2	4
Brown and gray sand - - - - -	2	6
Yellow sand and glauconite - - - - -	1	7
Yellow sand with some fine gray sand- - - - -	2	9
Gray sand - - - - -	1	10
Yellow and gray sand- - - - -	4	14
Yellow sand, water - - - - -	4	18
Yellow sand and iron stone gravel- - - - -	1	19
Coarse brown sand and gravel- - - - -	2	21
Water level, 15.7 feet below top of ground 24 hours after hole completed.		

Well 523

Near Well 522, 6-3/4 miles southwest of Longview.

Surface soil- - - - -	1	1
Red clay- - - - -	3	4
Fine white sand - - - - -	2	6
Yellow sand - - - - -	2	8
Brown and gray sand - - - - -	1	9
Brown sand and gravel, water- - - - -	5	14
Blue sandy shale- - - - -	1	15
Water level, 10.8 feet below top of ground, 3 days after hole completed.		

Logs of test wells in Gregg County--Continued

Well 541

Southeast corner of Mack Sanders tract,
Henry Hoover Survey, $7\frac{1}{2}$ miles east of
Kilgore.

	Thickness (feet)	Depth (feet)
Gray surface sand- - - - -	2	2
Red sandy clay- - - - -	5	7
Gray sandy clay, water- - -	4	11
Gray sandy clay- - - - -	2	13
Brown shale- - - - -	5	18
Water level, 5.8 feet below top of ground, $2\frac{1}{2}$ hours after hole completed.		

Well 546

Hilltop, on south line, 500 feet west
of east line, Ed. Taylor tract, Henry
Hoover Survey, 7 miles east of Kilgore.

Surface soil- - - - - 2 2

Joint clay- - - - - 5 7

Gray shale- - - - - 2 9

Yellow clay, water- - - - - 2 11

Brown shale- - - - - 10 21

Water level, 5.2 feet below top of
ground, $1\frac{1}{2}$ hours after hole completed.

Well 547

Hilltop, 300 feet east of west line
and 500 feet south of north line, C.
Taylor tract, Henry Hoover Survey, $6\frac{3}{4}$
miles east of Kilgore.

Surface soil- - - - -	1	1
Sand- - - - -	2	3
Struck rock- - - - -	-	3

Well 551

1,000 feet north of south line and 100
feet west of east line of T. B. Stinch-
comb 100 acre tract, Eleanor Bradley
Survey, $6\frac{1}{2}$ miles northeast of Kilgore.

Surface sand- - - - -	6	6
Yellow clay- - - - -	4	10
Red shale and sand- - - -	4	14

Well 555

Near top of hill, K. M. Pitner tract,
John Cole Survey, 3 miles east of Kil-
gore.

Surface soil- - - - -	2	2
Red sandy clay and gravel	3	5
Red and gray shale- - -	1	6
Brown sand and gravel- -	3	9
Red and gray sand- - -	1	10
Brown sand- - - - -	1	11
Yellow sand- - - - -	2	13
Gray sand- - - - -	2	15
Brown sand- - - - -	2	17
Brown shale and white sand	1	18

Well 555--Continued

	Thickness (feet)	Depth (feet)
Fine white sand, water	2	20
Brown shale with dark gray sand- - - - -	1	21
Brown shale- - - - -	1	22
Brown shale and green sand	1	23
Green sand- - - - -	1	24
Black sand with some green sand- - - - -	6	30
Water level, 14.5 feet below top of ground, 24 hours after hole completed.		

Well 556

Gently sloping hillside, K. M. Pitner
tract, John Cole Survey, 3 miles east
of Kilgore.

Red sand and gravel- - -	2	2
Coarse red sand- - - -	4	6
Yellow sandy clay and glauconite- - - - -	2	8
Brown sand and gravel, rock at 10 feet- - - -	3	11
Brown and gray sand- - -	1	12
Brown sand and gravel- -	2	14
Gray sandy shale- - - -	1	15
Yellow sand with streaks of gray sand- - - - -	1	16
Gray sandy shale with iron stains- - - - -	2	18
Brown sand and gravel- -	2	20
Gray sand- - - - -	3	23
Blue sand with streaks of green sand, water- -	2	25
Water level, 21.3 feet below top of ground, 24 hours after hole completed.		

Well 562

Hillside, County highway, 2,000 feet
north of south line of R. H. Still
tract, John Wilkinson Survey, $1\frac{3}{4}$
miles north of Kilgore.

Surface soil- - - - -	2	2
Gray shale, water- - -	7	9
Struck hard rock- - - -	-	9
Water level, 4.9 feet below top of ground, 3 hours after hole completed.		

Well 579

On slope, 800 feet north of south line
and 100 feet west of east line, G. Cum-
yus tract, Henry Hoover Survey, $6\frac{1}{4}$ miles
east of Kilgore.

Surface soil- - - - -	1	1
Red clay- - - - -	3	4
Red clay and gray sand- -	2	6
Brown sandy shale- - - -	1	7
Red sand- - - - -	1	8

(Continued next page)

Logs of test wells in Gregg County--Continued

Well 579--Continued

	Thickness (feet)	Depth (feet)
Brown and gray sand and shale- - - - -	2	10
Brown shale - - - - -	2	12
Yellow and brown sand, water	2	14
Brown shale with streaks of yellow sand- - - - -	2	16
Dark brown sand - - - - -	2	18
Water level, 12.6 feet below top of ground, $2\frac{1}{2}$ hours after hole completed.		

Well 602

Hillside, Lot 38, south side Garden Addition, Avery Johnson Survey, 2 miles southeast of Longview.

Surface soil- - - - -	1	1
Yellow sandy clay - - - - -	3	4
Red clay- - - - -	4	8
Struck hard rock- - - - -	-	8

Well 603

Valley, 1,000 feet south of north line and 320 feet west of east line of Helen Pritchard 420 acre tract, Francis Johnson Survey, 2 miles southeast of Longview.

Surface soil- - - - -	2	2
Red sandy clay- - - - -	4	6
Gray sand, water- - - - -	4	10
Yellow sand- - - - -	2	12
Gray sand- - - - -	2	14
Yellow sand- - - - -	7	21

Well 604

In Lot 38, southwest of Well 602, 2 miles southeast of Longview.

Surface soil- - - - -	1	1
Yellow sandy clay - - - - -	4	5
Red sandy clay- - - - -	1	6
Red clay- - - - -	3	9
Struck hard rock- - - - -	-	9

Well 605

In Lot 38, northwest of Well 602, 2 miles south of Longview.

Surface soil- - - - -	1	1
Red clay- - - - -	7	8
Red and gray shale- - - - -	2	10
Yellow sandy clay - - - - -	1	11
Brown shale- - - - -	1	12
Red and gray shale - - - - -	2	14
Brown sandy shale- - - - -	2	16
Yellow and gray sand, water	2	18
Gray sand- - - - -	1	19

Well 605--Continued

	Thickness (feet)	Depth (feet)
Yellow and gray sand- - -	1	20
Brown and gray sand - - -	1	21
Water level, 11 feet below top of ground, 8 hours after hole completed.		

Well 606

In Lot 38, south of Well 602, 2 miles southeast of Longview.

Surface soil- - - - -	1	1
Yellow sandy clay - - - - -	5	6
Red sandy clay- - - - -	3	9
Blue shale- - - - -	1	10
Red clay- - - - -	1	11
Yellow clay and sand- - -	3	14
White sand, water - - - -	4	18
White sand with streaks of yellow- - - - -	3	21
Yellow and brown shale- -	2	23
Brown shale- - - - -	5	28
Brown sandy shale- - - - -	7	35
Light brown shale - - - -	2	37
Green sand- - - - -	2	39

Water level, 11 feet below top of ground, 7 hours after hole completed.

Well 610

Valley, F. T. Rea, 20 acre tract, Samuel Jackson Survey, 4 miles south of Longview.

Surface soil- - - - -	2	2
Red sand- - - - -	3	5
Yellow clay - - - - -	5	10
Gray sandy clay - - - - -	1	11
Brown shale - - - - -	3	14
Black shale - - - - -	3	17

Water level, 6.2 feet below top of ground, $1\frac{1}{2}$ hours after hole completed.

Well 613

Valley, southwest corner of Wm. Brown 100 acre tract, Isaac Ferguson Survey, 5 miles southeast of Longview.

Surface soil- - - - -	1	1
Brown sand- - - - -	2	3
Gray sand - - - - -	2	5
Yellow sand- - - - -	2	7

Water level, 3.4 feet below top of ground, 2 hours after hole completed.

Well 614

River valley, 100 feet east of highway, 1,000 feet north of river, northwest corner of Frost Thorn Survey, 6 miles south of Longview.

Surface soil- - - - -	1	1
Red and gray clay - - - - -	3	4
White sand, water - - - - -	4	8
Hole caved.		

Logs of test wells in Gregg County--Continued

Well 616

On long slope, highway opposite W. G. Mitchell farm, Henry Hoover, Survey, 7 miles south of Longview.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	2	2
Red clay- - - - -	4	6
Brown shale with thin layers of iron rock and gypsum crystals - - - - -	10	16
Hard black shale- - - - -	5	21
Fine green sand- - - - -	1	22
Black shale with streaks of green sand- - - - -	4	26
Water level, 4.9 feet below top of ground, 24 hours after hole completed.		

Well 618

Valley, near center of north line, W. G. Mitchell 400 acre tract, Frost Thorn Survey, 7 $\frac{1}{2}$ miles south of Longview.

Surface soil- - - - -	2	2
Yellow sand- - - - -	2	4
Red clay- - - - -	1	5
Red sandy clay- - - - -	3	8
Brown shale- - - - -	2	10
Gray sand, water- - - - -	3	13
Water level, 5.9 feet below top of ground, 1 $\frac{1}{2}$ hours after hole completed.		

Well 623

Southwest corner of Geo. Borders tract, Frost Thorn Survey, 7 $\frac{1}{4}$ miles south of Longview.

Surface soil- - - - -	2	2
Red clay- - - - -	4	6
Gray shale, water- - - - -	3	9
Yellow clay- - - - -	2	11
Brown shale- - - - -	1	12
Water level, 4.4 feet below top of ground, 2 hours after hole completed.		

Well 627

Northeast corner of John Earl tract, John Matthews Survey, 8 $\frac{1}{2}$ miles south of Longview.

Surface soil- - - - -	1	1
Yellow sand, water- - - - -	5	6
Red and gray sand- - - - -	2	8
Yellow sand- - - - -	2	10
Water level, 4.4 feet below top of ground.		

Well 628

Southeast of Well 627.

	Thickness (feet)	Depth (feet)
Surface soil- - - - -	1	1
Yellow sand and gravel- - - - -	6	7
Struck hard rock- - - - -	-	7

Well 633

Near middle of north line, Joe Nelson tract, Dinsmore Simpson Survey, 9 $\frac{1}{2}$ miles southeast of Longview.

Surface soil- - - - -	2	2
Light brown sand- - - - -	4	6
Brown and gray sand- - - - -	4	10
Yellow and gray sand- - - - -	2	12
Red and gray sandy clay- - - - -	2	14
White sand, water- - - - -	4	18

Well 639

Valley, County highway, 100 feet south of Cherokee Bayou, 12 $\frac{1}{2}$ miles southwest of Longview

Surface soil- - - - -	2	2
Fine brown sand- - - - -	8	10
Hole caved.		

Partial analyses of water from wells in Gregg County, Texas.

(Analyzed at the State University under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, C. R. Stewart, D. F. Riddell, and Alfred J. Kelly, Chemists, and J. A. Harmaza, Martin Wieland and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
1	F.L. Feather	42	June 2, 1936	35	-	-	-	18	a/	13	-
2	Mrs. W.M. Hall	58	do.	117	13	9	34	73	8	17	69
3	Lawrence # 1. Shasta Oil Co.	-	do.	422	-	-	-	415	8	45	-
4	W.P.A. test well	9	do.	100	-	-	37	12	25	32	1
5	H.G. Ray	600	-	377	2	1	156	366	13	25	11
6	M.C. Bell	30	June 2, 1936	40	-	-	-	6	8	15	-
7	H.G. Ray	27	do.	61	-	-	-	18	11	19	-
9	W.P.A. test well	17	do.	60	-	-	24	24	a/	24	2
10	R.B. Porter	15	Mar. 5, 1936	23	2	-	7	12	a/	8	0
11	do.	32	do.	10	-	-	6	30	a/	8	-
13	L.L. Mackey	27	Mar. 6, 1936	34	-	-	13	12	a/	15	3
14	Ola Stinson	27	Mar. 20, 1936	45	-	-	-	24	a/	16	-
15	L.L. Mackey	Spring	do.	49	-	-	-	18	a/	22	-
16	W.P.A. test well	36	Mar. 5, 1936	331	59	31	-	6	a/	188	480
20	Mrs. D.C. Chaffin	60	Mar. 3, 1936	210	8	10	59	6	a/	130	61
21	Wm. Hunter	31	Mar. 4, 1936	32	-	-	-	18	a/	11	-
22	Dan Hunter	Spring	Mar. 20, 1936	35	-	3	10	18	a/	13	11
24	Tom Willis	35	Mar. 9, 1936	20	1	2	5	9	a/	8	10
26	Mrs. E.F. McQueen	26	Mar. 5, 1936	26	1	2	6	3	a/	15	10
27	W.C. Mackey	29	June 2, 1936	35	8	-	6	24	a/	9	19
28	W.P.A. test well	12	do.	57	-	-	-	18	a/	27	-
29	M. & P. Bonner	750	June 15, 1936	274	9	5	99	274	8	18	43
30	Tidewater Oil Co.	812	Mar. 23, 1936	2,299	12	4	872	360	a/	1,234	47
32	Ardelia Sly	35	Mar. 5, 1936	63	1	3	19	3	a/	38	15
35	J.H. Hamby	27	Mar. 4, 1936	47	1	6	9	30	a/	16	28
37	Sarah Dixon	35	Mar. 6, 1936	98	2	5	23	3	46	20	27
39	Mrs. Ogie Hiett	55	Mar. 6, 1936	34	3	2	7	3	a/	20	15
41	D.E. Hiett	34	June 19, 1936	134	34	27	-	6	a/	70	197
42	do.	38	June 17, 1936	37	-	-	-	12	a/	17	-
43	J. Bussey	21	June 15, 1936	35	-	-	-	12	a/	16	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
44	Wiley Page	35	June 17, 1936	23	-	-	-	12	a/	8	-
45	A.J. Page	27	do.	44	3	11	-	12	a/	19	67
47	W.P.A. test well	23	do.	70	-	-	-	6	25	19	-
48	Mrs. Sam Page	33	Mar. 18, 1936	24	1	4	3	3	a/	15	18
49	N.W. Bussey	45	-	65	4	1	17	-	18	25	15
50	W.A. Jones	22	Mar. 4, 1936	35	4	7	-	24	a/	12	40
51	Seth Jones	32	do.	30	4	1	6	6	a/	16	15
53	E.L. Whitehurst	30	Mar. 2, 1936	34	-	4	8	12	a/	16	15
54	J.C. Hamby	30	May 23, 1936	60	-	-	-	12	8	25	-
55	E.E. Stone	41	June 15, 1936	34	-	-	-	24	a/	19	-
58	J.J. F ewellen	36	do.	270	17	12	71	-	a/	176	93
59	Maude Smith	29	do.	124	-	4	40	6	23	54	17
60	G.F. Meadows	732	June 12, 1936	207	-	-	-	110	54	26	-
61	Barnsdall Oil Co.	-	Apr. 9, 1936	236	-	-	-	153	50	26	-
62	G. W. Willingham	390	June 15, 1936	323	4	4	120	159	19	98	27
63	J.L. Reppond	41	do.	97	-	-	-	6	a/	59	-
64	W.L. Fuller	29	Mar. 24, 1936	78	-	3	27	24	a/	36	12
65	Mrs. A.C. McAfee	21	Mar. 18, 1936	108	-	2	35	6	48	20	7
66	L.L. Mackey	-	June 16, 1936	40	-	-	-	6	8	15	-
67	C.R. Parker	22	do.	71	2	4	16	6	33	13	22
69	W.P.A. test well	29	June 16, 1936	237	4	11	59	6	123	37	57
70	L.L. Hamby	27	Mar. 2, 1936	56	2	9	7	24	a/	26	42
71	Sam Page	25	June 16, 1936	-	-	10	72	86	23	74	42
73	I. Killingsworth	38	June 17, 1936	32	-	-	-	18	a/	11	-
74	Charlie Henderson	33	Mar. 20, 1936	76	-	-	-	12	a/	42	-
76	T.E. Killingsworth	28	Mar. 10, 1936	26	-	3	6	12	a/	11	12
77	R.J. Mackey	29	Feb. 25, 1936	43	4	9	-	6	a/	27	46
78	Mrs. R.J. Mackey	200	do.	290	18	11	76	177	67	30	91
82	L.L. Mackey	12	Mar. 3, 1936	59	-	-	21	6	21	14	-
83	R.D. Adrian	-	June 16, 1936	74	-	-	-	18	a/	38	-
84a	Judson Grove School	394	July 20, 1936	50	-	-	-	36	a/	13	-
85	Claude Mackey	32	Mar. 5, 1936	71	-	3	20	-	35	13	11
87	H.G. Precise	40	Mar. 3, 1936	80	2	1	24	6	34	16	10
88	G.C. Mackey	25	do.	55	2	4	14	12	a/	29	20

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
92	L.L. Mackey	23	Feb. 25, 1936	46	-	4	13	18	a/	20	15
93	R.R. Pfler	Spring	Mar. 17, 1936	25	3	-	6	12	a/	10	10
94	do.	do.	do.	29	1	-	11	12	a/	11	2
96	J.R. Melton	30	June 16, 1936	27	1	2	7	6	a/	14	10
97	do.	Spring	Mar. 16, 1936	34	4	-	9	18	a/	12	12
99	J.B. Lewis	30	Mar. 19, 1936	91	3	3	29	15	a/	49	18
100	J.P.A. test well	30	Mar. 24, 1936	33	-	4	7	-	a/	22	16
101	J.B. Lewis	Spring	do.	35	-	1	14	18	a/	11	6
102	J.E. Stone	41	June 16, 1936	21	-	-	-	6	a/	10	-
104	J.P.A. test well	12	do.	47	-	-	-	12	15	10	-
106	do.	42	Apr. 8, 1936	56	-	1	19	18	15	12	6
107	R.S. McFinley	Spring	do.	28	-	-	-	18	a/	9	-
108	Mrs. C.V. Daniel	34	Apr. 9, 1936	40	7	6	-	8	a/	24	44
109	Rob. Bowles Oil Co.	25	Mar. 26, 1936	142	-	3	48	12	44	41	11
110	Sun Oil Company	837	b/ 1931	2,082	-	-	832	389	a/	1,057	-
110	do.	837	Mar. 25, 1936	2,012	-	3	795	232	a/	1,100	12
111	R.R. Collins	29	June 12, 1936	36	-	-	-	6	a/	20	-
112	Magnolia Petr. Co.	811	Mar. 19, 1936	1,983	12	3	777	463	a/	960	40
114	W.P.A. test well	12	June 18, 1936	60	-	-	-	12	19	15	-
115	W.C. Turnbow	21	Mar. 25, 1936	60	-	-	-	49	a/	13	-
116	Herman Fenton	31	June 12, 1936	38	-	4	9	6	a/	22	16
118	Stenolind Oil Co.	410	Apr. 8, 1936	1,600	7	5	620	250	25	820	38
120	G.A. Castleberry	18	June 12, 1936	102	-	-	-	12	a/	59	-
121	Jim Toler	25	Mar. 26, 1936	83	-	-	-	61	a/	21	-
122	W.P.A. test well	30	June 12, 1936	109	-	1	37	6	42	26	6
123	Mrs. J.R. Fenton	800	June 16, 1936	1,398	66	10	470	232	8	730	206
125	W.P.A. test well	20	June 12, 1936	42	-	-	-	12	8	13	-
126	W.D. Northcutt Est.	28	do.	51	-	-	-	12	a/	26	-
127	J.R. Meadows	30	do.	22	2	1	5	6	a/	11	11
128	W.P.A. test well	13	-	92	-	-	-	18	38	15	-
129	Mrs. Georgie McCrede	34	Mar. 9, 1936	139	3	26	38	-	a/	72	70
132	Minnie Thrasher	26	June 23, 1936	40	2	1	12	6	a/	22	11
133	R.H. Still	Spring	June 9, 1936	65	-	-	-	55	a/	13	-
134	Charley Henderson	25	Mar. 10, 1936	53	-	-	-	18	a/	24	-

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by Sun Oil Company.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
135	W.P.A. test well	38	Mar. 10, 1936	92	-	1	33	24	22	24	6
136	E.A. Finch	Spring	Mar. 19, 1936	24	-	1	9	12	a/	9	3
137	John Finch	35	Mar. 16, 1936	64	1	5	16	3	a/	40	25
138	S.R. Thrasher	21	June 23, 1936	32	-	-	-	6	a/	17	-
139	do.	21	do.	30	-	-	-	12	a/	12	-
140	Geo. Ward	31	do.	32	2	4	5	18	a/	12	22
141	W.P.A. test well	22	Mar. 26, 1936	39	-	-	-	24	a/	12	-
142	Mrs. W.H. Toler	Spring	do.	34	-	-	-	18	a/	12	-
143	J.H. Cocke	27	June 12, 1936	24	-	-	-	12	a/	9	-
144	W.P.A. test well	30	Mar. 27, 1936	33	-	2	11	16	a/	11	7
145	do.	26	June 23, 1936	188	-	-	-	12	119	6	-
147	E.F. Real	26	do.	112	-	-	-	6	38	34	-
148	W.P.A. test well	20	do.	70	-	-	25	6	23	19	1
149	do.	21	do.	137	-	-	-	12	50	36	-
151	do.	16	June 19, 1936	64	-	-	-	12	23	14	-
153	Arkansas Fuel Oil Co.	372	Apr. 7, 1936	1,233	6	4	482	348	25	545	32
155	Pine Tree School	27	June 22, 1936	55	-	-	-	37	8	9	-
156	S.G. & Maude Smith	27	June 19, 1936	52	-	-	-	6	8	23	-
158	W.P.A. test well	13	do.	33	-	-	-	12	a/	15	-
159	T.B. Harris	245	do.	577	10	1	229	451	8	107	31
160	do.	do.	do.	33	6	1	4	12	8	8	21
161	S.G. Smith	220	Mar. 30, 1936	441	2	-	181	372	35	37	5
162	W.J. Guy	26	June 12, 1936	62	-	-	-	12	a/	33	-
163	W.P.A. test well	14	Feb. 19, 1936	64	-	4	7	43	a/	32	15
165	Mrs. C. F. Miles	30	Mar. 13, 1936	18	-	-	7	9	a/	7	3
166	Mrs. Ralph Evans	17	Mar. 9, 1936	46	-	-	-	37	a/	10	-
167	Mrs. Lonnie Smith	16	Mar. 10, 1936	29	2	4	4	9	a/	15	20
171	Mrs. C. F. Miles	31	Mar. 19, 1936	34	1	3	6	-	a/	24	15
172	Mrs. C.A. Meadows	25	Mar. 13, 1936	32	5	2	4	3	a/	19	20
173	- Holland	26	June 17, 1936	68	-	-	-	6	8	33	-
174	Mrs. V.H. Musselwhite	22	Mar. 13, 1936	15	-	-	6	6	a/	8	3
175	Mrs. J.T. Hughey	35	-	43	6	3	7	21	a/	17	25
177	W.P.A. test well	12	June 30, 1936	310	-	-	-	-	177	38	-
178	Dr. Hurst	348	June 1, 1936	128	28	26	-	6	8	63	176

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
179	W.P.A. test well	16	June 30, 1936	1,011	155	22	164	195	361	213	479
180	Margie Capps	75	do.	2,947	243	62	565	-	1,824	220	861
181	do.	67	do.	2,969	233	132	434	-	1,920	154	1,126
182	do.	74	-	-	-	-	-	-	365	234	-
185	A.L. Bruton	28	June 3, 1936	172	-	-	-	61	11	68	172
186	do.	30	do.	70	11	21	-	-	8	30	113
188	M.J. Trotter	19	Apr. 10, 1936	51	-	-	-	24	a/	20	-
139	do.	228	b/ 1931	-	-	-	-	-	15	15	85
190	W.P.A. test well	18	Apr. 10, 1936	37	-	-	-	18	a/	14	-
191	Edwin Lacy	35	June 1, 1936	144	-	-	-	-	44	52	-
192	Oil Well Supply Co.	192	b/ 1931	-	-	-	-	-	70	264	50
192a	Magnolia Pipe Line Co.	801	c/ 1931	1,410	30	3	460	320	20	579	87
192a	do.	-	c/ 1931	-	-	-	-	-	5	330	20
192b	Guy McKay	470	b/ 1931	-	-	-	-	-	5	750	30
192c	Drane Tank Co.	38	b/ 1931	-	-	-	-	-	a/	4	45
193	E. Rodden	290	Mar. 30, 1936	1,519	15	6	577	281	33	750	64
194	Stanolind Pipeline Co.	332	Mar. 23, 1936	992	-	1	392	305	62	387	6
194a	do.	332	b/ 1931	-	-	-	-	-	40	424	30
195	Premier Refining Co.	292	June 3, 1936	1,109	8	3	434	390	27	445	32
196	W.N. Stephens Estate	34	June 1, 1936	42	-	-	-	18	8	10	-
201	W.E. Jones	36	June 15, 1936	99	-	-	-	6	42	22	-
202	Dyck Oil Company	600	Mar. 27, 1936	1,076	4	1	778	281	25	1,030	16
204	Thrasher & Stuckey	19	June 12, 1936	29	4	3	3	12	a/	13	22
205	A.F. Jones	15	June 11, 1936	35	-	-	-	12	a/	16	-
208	A.J. Sanders	52	do.	38	-	-	-	12	8	11	-
209	L.J. Everett	42	do.	96	8	6	20	6	a/	59	44
210	do.	23	do.	37	-	-	-	24	a/	11	-
211	W.P.A. test well	45	Apr. 1, 1936	69	-	-	-	18	19	17	-
212	do.	19	Apr. 3, 1936	88	2	3	26	18	27	21	16
213	do.	44	Mar. 30, 1936	109	12	10	16	12	42	23	51
214	Humble Oil & Refining Company	1,084	Mar. 31, 1936	967	6	4	372	244	40	425	32

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by S. F. Turner and Penn Livingston.

c/ Partial analysis by Curtis Laboratories.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
215	M.F. McKinney Spring		Apr. 1, 1936	43	-	-	-	18	a/	18	-
217	W.P.A. test well	29	Mar. 30, 1936	78	-	-	-	6	36	14	-
219	J.H. Bozeman	22	Apr. 2, 1936	76	2	1	25	18	8	31	11
220	J.F. Bowles	43	June 10, 1936	167	-	-	-	171	a/	17	-
222	do.	400	do.	667	18	9	238	287	19	242	80
224	do.	446	do.	380	14	9	126	195	19	116	70
225	L.P. Duncan	900	June 22, 1936	434	6	3	161	213	61	98	27
227	do.	25	do.	45	-	-	-	12	8	15	-
228	Amerada Petro Co.	248	Apr. 2, 1936	349	25	15	69	37	196	26	121
229	W.P.A. test well	29	Mar. 31, 1936	374	-	-	-	18	230	21	-
230	Barnsdale Oil Co.	888	Apr. 9, 1936	2,435	6	1	885	457	8	1,110	21
231	Odie Jones	30	Mar. 26, 1936	29	-	1	10	12	a/	12	6
234	W.P.A. test well	40	June 22, 1936	84	-	-	29	6	42	10	1
235	do.	18	do.	133	-	1	48	-	19	65	6
236	do.	6	do.	52	-	-	-	6	19	13	-
238	J.B. Doby	25	Apr. 7, 1936	69	2	1	27	-	37	22	11
239	O.G. Murphy Trustee	315	do.	867	-	1	355	537	27	220	6
241	A. Christian	Spring	June 18, 1936	17	-	-	7	6	a/	7	-
242	Herbert Davis	27	do.	42	-	-	-	24	8	7	-
243	J.M. Tuttle	965	June 22, 1936	2,456	-	-	-	537	a/	1,290	-
244	do.	34	do.	36	-	-	-	24	a/	10	-
245	do.	350	do.	918	-	1	380	585	a/	249	6
247	- Jones	Spring	Apr. 2, 1936	27	-	-	11	12	a/	10	-
248	W.P.A. test well	28	June 10, 1936	270	18	15	52	12	125	54	104
249	do.	28	do.	81	-	-	-	18	31	14	-
251	Empire Gas & Fuel Co.	745	Apr. 3, 1936	631	2	4	255	518	25	90	22
251	do.	745	b/ 1931	-	-	-	-	-	10	372	25
252	Texas Company	580	Apr. 27, 1936	1,282	2	4	514	537	8	490	22
253	Mrs. W.L. Jopling	37	Apr. 2, 1936	37	-	1	12	6	11	10	6
254	Magnolia Petr. Co.	1,078	Apr. 3, 1936	233	9	6	73	134	35	44	49
256	J.M. McFarland	15	June 11, 1936	38	-	4	9	18	a/	16	17
257	Cox-Ramon Oil Co.	1,025	Mar. 30, 1936	3,879	11	9	1,525	720	a/	1,980	64
258	City of Gladewater #1	826	Apr. 27, 1936	1,199	5	6	473	537	21	430	39

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by S. F. Turner and Penn Livingston.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
259	City of Gladewater #2	725	Apr. 27, 1936	663	6	-	266	402	23	170	15
259	do.	725	b/ 1931	-	-	-	-	-	30	132	20
260	Gladewater Gasoline Company	400	Apr. 9, 1936	131	5	5	36	49	42	19	33
261	Texas Oil Products Company	200	do.	119	4	4	34	49	29	22	27
262	Morgan Utilities #1	780	Mar. 30, 1936	1,253	6	-	500	488	37	470	15
263	Morgan Utilities Co.	618	do.	661	2	-	269	476	52	104	5
263	do.	618	b/ 1931	-	-	-	-	-	35	164	20
264	City of Gladewater #3	560	Mar. 30, 1936	854	6	4	337	513	35	220	32
265	Sinclair Prairie Oil Company	807	Apr. 29, 1936	2,427	2	-	973	573	a/	1,170	4
267	A.F. Shepard	9	July 8, 1936	145	-	-	-	79	8	44	-
268	T. Isley	540	June 8, 1936	854	2	-	354	597	11	193	5
269	J.W. Dobie	18	Apr. 10, 1936	141	8	9	26	6	75	20	55
270	Sells Petroleum Co.	400	do.	558	6	1	224	488	27	60	21
271	Mrs. - Allen	48	do.	147	-	-	-	18	71	20	-
272a	Sun Oil Company	905	c/ 1931	1,973	16	3	779	707	a/	827	52
272	Sun Oil Co. #2	376	Mar. 25, 1936	552	4	11	214	525	a/	65	57
273	W.P.A. test well	39	do.	325	-	-	-	116	8	140	-
274	Amerada Petr. Co.	404	Apr. 1, 1936	689	6	1	282	604	17	86	21
275	Stanolind Oil Co.	872	Apr. 6, 1936	2,575	5	9	1,020	775	a/	1,160	50
276	Fred Adrian	26	June 3, 1936	39	4	4	4	12	11	10	27
277	W.P.A. test well	19	Apr. 6, 1936	55	-	-	-	12	17	13	-
278	Julia Snoddy	31	June 18, 1936	46	2	1	13	12	15	9	11
280	Arkansas Fuel Oil Co.	400	June 19, 1936	1,444	12	-	573	549	8	581	30
281	Shano Oil Company	600	June 23, 1936	1,983	4	3	790	506	8	929	22
282	W.P.A. test well	6	June 19, 1936	114	-	5	36	24	19	42	21
283	do.	18	June 18, 1936	40	-	-	-	24	a/	13	-
285	Gulf Prod. Company	964	Apr. 6, 1936	1,873	6	1	756	793	a/	720	21
288	General Crude Oil Co.	250	May 14, 1936	682	18	4	238	336	173	84	62
290	Midewater Oil Co.	843	Mar. 27, 1936	1,725	2	3	698	757	a/	650	17
291	Cox-Hamon Oil Co.	880	Mar. 30, 1936	1,978	-	4	800	782	a/	790	16
292	Sutton-Hawkins Oil Co.	580	May 21, 1936	785	-	1	330	647	a/	136	6

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by S. F. Turner and Penn Livingston.

c/ Partial analysis by - Winn.

Partial analyses of water from wells in Gregg County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
293	J.A. Moore	462	May 21, 1936	217	28	35	23	-	35	96	121
294	Magnolia Petr. Co.	796	May 14, 1936	2,039	6	1	832	732	a/	840	21
298	Sinclair Oil Co.	885	do.	2,280	7	-	914	763	4	980	20
299	T.W. Lee	21	June 8, 1936	65	-	-	-	18	8	25	-
300	A.F. Shephard	26	do.	57	4	4	9	-	25	15	27
301	Lewis Woods	695	b/ 1931	-	-	-	-	-	30	28	10
301	do.	695	Apr. 29, 1936	538	-	1	224	507	31	33	6
302	Humble Oil Company	30	May 23, 1936	338	-	-	-	12	77	140	-
401	Bob Davis	26	June 3, 1936	79	-	-	-	12	31	16	-
403	J.P.A. test well	24	May 13, 1936	65	-	3	20	24	17	13	12
407	M.T. Cole	30	June 9, 1936	122	-	-	-	49	8	45	-
408	Selby Oil & Gas Co.	420	do.	5,175	-	5	2,150	4,630	336	410	23
409	Houston Oil Company	420	do.	497	-	6	200	482	25	29	26
410	Sun Oil Company	400	do.	519	2	1	217	512	8	39	11
411	Sinclair Prairie Oil Company	1,008	Apr. 29, 1936	1,981	-	4	800	751	8	800	16
412	American Liberty Oil Co.	400	June 9, 1936	515	-	3	213	494	27	29	12
413	D.A. Shoemaker	97	Apr. 29, 1936	216	-	13	10	5	a/	50	52
416	S.M. Smith	38	June 9, 1936	90	21	5	8	92	a/	11	73
417	Ottie L. Stokley	20	June 8, 1936	38	-	-	-	12	8	11	-
418	L.G. Smallwood	-	do.	295	8	14	83	-	a/	190	79
419	L.G. Smith	26	June 9, 1936	29	-	-	-	18	a/	9	-
420	W.P.A. test well	52	Apr. 29, 1936	56	-	1	20	24	8	15	6
421	Sabine School	310	Apr. 17, 1936	301	-	1	122	256	35	17	6
422	J.E. Welch	57	Apr. 30, 1936	53	4	1	14	12	8	20	16
424	Invincible Oil Co.	890	May 8, 1936	549	2	1	229	537	15	38	11
425	M.H. Fuller	23	do.	58	4	-	19	37	8	9	9
426	Sabine Valley Gas. Corp. #1	454	May 11, 1936	553	-	21	213	542	25	27	46
427	Sabine Valley Gas. Corp. #2	467	do.	547	4	-	229	549	15	29	10
428	Sabine Valley Gas. Corp. #3	557	do.	557	-	1	230	561	17	33	6
430	J.W. Brown	24	May 12, 1936	31	6	-	5	6	8	9	14
431	Calvin Brown	Spring	do.	34	-	1	12	12	a/	15	6
432	Mrs. Otto Lockhart	34	May 11, 1936	1,127	-	-	-	-	768	25	-

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by S. F. Turner and Penn Livingston.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
433	Sinclair Prairie Oil Company	846	May 13, 1936	1,419	6	-	575	768	a/	450	14
434	J.P.A. test well	33	May 8, 1936	182	-	-	-	122	38	18	-
436	C.S. Clayton	Spring	do.	30	-	-	-	24	a/	12	-
437	J.P.A. test well	26	May 7, 1936	40	-	-	-	12	8	12	-
438	do.	32	Apr. 15, 1936	86	-	5	27	49	8	22	21
439	Houston Oil Co.	800	May 8, 1936	1,411	4	-	587	726	8	485	10
440	Jm. Pentecost	13	May 29, 1936	152	-	-	-	12	77	21	-
441	Magnolia PetrCo.	1,022	May 12, 1936	1,306	6	-	534	745	a/	400	15
442	Sinclair Prairie Oil Company	852	do.	845	4	-	354	738	a/	124	10
443	C.L. McMahon	937	May 8, 1936	590	-	4	245	604	25	19	16
445	Mrs. R.A. Gray	54	Apr. 23, 1936	69	12	1	12	31	8	21	36
446	Houston Oil Co.	777	May 8, 1936	834	6	-	345	684	11	136	14
448	Sinclair Prairie Oil Company	817	May 13, 1936	181	-	1	335	683	15	114	6
449	V.P.A. test well	38	May 11, 1936	37	-	-	-	24	a/	11	-
450	Cum Wells	21	May 29, 1936	32	-	-	8	12	8	6	10
451	Jas. Berry	Spring	May 28, 1936	29	-	-	-	12	a/	12	-
452	T.W. Chapman	do.	Apr. 27, 1936	131	-	-	-	6	73	15	-
453	V.P.A. test well	37	Apr. 16, 1936	148	-	-	-	36	60	21	-
454	Rube Dixon Estate	26	June 10, 1936	-	-	-	-	-	122	56	-
455	P. Kennedy Estate	34	May 29, 1936	47	-	-	-	12	15	10	-
456	Taylor Cameron	34	do.	49	2	1	15	18	8	14	11
457	Mrs. G.W. Goforth	23	do.	26	-	-	-	12	a/	10	-
459	H. Goforth	12	do.	52	-	-	-	6	a/	30	-
460	Sun Oil Company	424	Apr. 14, 1936	516	-	1	217	524	23	17	6
460a	do.	915	b/ 1931	1,686	20	4	656	706	43	615	66
461	V.P.A. test well	36	Apr. 13, 1936	243	-	-	-	79	108	16	-
462	Tidewater Oil Co.	462	Apr. 30, 1936	451	2	1	188	464	17	15	11
464	Harter and Gaskey	900	May 7, 1936	485	-	7	196	500	13	23	31
467a	Gulf Oil Company	850	c/ 1931	-	-	-	-	-	20	480	20
468	City of Kilgore #4	780	Apr. 14, 1936	1,688	6	2	678	720	8	640	27

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by party unknown.

c/ Partial analysis by S.F. Turner.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
468c	Magnolia Petr.Co.	420	b/ 1931	-	-	-	-	-	15	20	15
468b	I. & G.F. R.R.	805	c/ 1931	1,514	13	trace	558	655	75	450	33
469	City of Kilgore #1	875	Apr 14, 1936	1,683	6	4	674	720	a/	645	32
469	do.	875	d/ 1931	1,732	10	trace	665	677	60	588	25
469	do.	-	d/ 1932	-	trace	-	-	588	10	595	2
469a	City of Kilgore #2	800	b/ 1931	-	-	-	-	-	30	60	15
469b	Hotel Kilgore	630	b/ 1931	980	-	-	-	506	a/	60	5
470	City of Kilgore #3	906	Apr. 14, 1936	2,084	6	9	826	743	a/	880	50
471	Humble Oil and Refining Company	1,133	Apr. 15, 1936	732	6	3	295	604	29	102	27
471	do.	906	a/ 1931	951	15	3	335	639	34	155	30
471	do.	-	b/ 1931	-	-	-	-	-	25	140	12
472	J.P.A. test well	12	June 29, 1936	701	-	48	75	-	149	58	380
473	Roger Lacy	512	May 29, 1936	492	2	4	200	500	27	13	22
474	Thos. D. Humphrey	912	Apr 23, 1936	1,570	8	-	630	659	23	585	19
475	Hercules Ref. Co.	400	May 26, 1936	149	-	-	-	482	19	17	-
476	Shell Petr. Company	500	Apr. 13, 1936	448	-	4	184	457	21	14	16
479	Hawkie Petr. Co.	641	May 29, 1936	479	-	-	-	506	31	13	-
480	Magnolia Petr.Co.	953	Apr. 13, 1936	1,973	3	6	785	745	33	780	34
482	Mun. Blackman	15	May 26, 1936	2,288	71	73	304	-	250	630	430
484	J.S. King	28	do.	628	-	-	-	6	338	92	-
485	J.R. Beall	14	do.	53	6	4	9	24	a/	22	32
486	Tidewater Oil Co.	972	do.	1,514	5	5	607	720	8	535	33
487	J.P.A. test well	26	do.	48	-	1	17	12	a/	24	6
488	do.	42	do.	1,052	-	-	-	-	607	123	-
490	do.	17	do.	191	-	10	44	-	127	10	41
491	John I. Choice Est.	37	May 26, 1936	59	-	-	-	18	a/	23	-
492	J.P.A. test well	7	Feb. 7, 1936	28	-	-	-	-	11	8	-
494	J.S. Dansby	Spring	May 27, 1936	21	-	-	-	12	a/	7	-
495	Mt. Peschke School	17	do.	29	-	-	-	24	a/	6	-
496	Soloman Sheffield Est	16	May 26, 1936	30	8	1	1	6	a/	17	26

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by S. F. Turner and Penn Livingston.

c/ Partial analysis by State Department of Health.

d/ Partial analysis by party unknown.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
497	Mrs. F.J. Glover	29	May 26, 1936	55	-	4	16	12	a/	29	17
498	B.B. Seals Estate	33	do.	37	-	-	-	30	a/	8	-
501	W.P.A. test well	13	June 24, 1936	37	-	-	-	18	a/	14	-
502	Mrs. J.D. Martin	29	do.	29	-	-	-	24	a/	6	-
503	D.H. Jones	467	June 30, 1936	2,028	3	4	808	555	a/	940	22
504	Henry Butler	105	May 25, 1936	398	-	-	-	37	a/	235	-
505	W.P.A. test well	18	do.	80	-	-	-	49	17	10	-
506	do.	26	do.	3,980	-	-	-	-	2,131	615	-
507	R. Lacy	17	do.	-	-	-	-	85	8	86	-
508	Bill Dean	15	June 1, 1936	345	17	15	100	6	61	149	104
511	W.P.A. test well	20	Apr. 25, 1936	182	-	1	67	37	33	63	6
512	Tilton Gray	Spring	Apr. 24, 1936	293	-	-	-	18	42	140	-
513	Dr. J. Falvey	do.	Apr. 23, 1936	183	-	4	65	18	12	93	16
514	L.A. Mackey	do.	June 23, 1936	243	-	-	-	12	31	121	-
515	J.R. Castleberry	31	June 3, 1936	34	-	-	-	12	8	8	-
516	L.A. King	14	May 21, 1936	143	22	1	28	43	35	36	61
519	Sun Oil Company	16	June 1, 1936	49	-	1	17	24	11	8	6
520	Tidal Oil Co.	906	May 11, 1936	1,348	4	-	550	689	a/	455	10
521	A. G. Morton	25	June 1, 1936	42	-	-	-	18	8	10	-
522	W.P.A. test well	21	Apr. 27, 1936	59	-	-	-	18	a/	28	-
523	do.	15	Apr. 25, 1936	40	-	-	-	18	a/	16	-
524	Wm. Clayton	Spring	Apr. 24, 1936	39	-	4	10	12	a/	19	16
525	Magnolia Petr. Co.	218	do.	536	2	4	217	525	37	18	22
526	G.B. Brown	34	Apr. 22, 1936	117	2	4	39	85	8	20	22
527	Shell Pipeline Co.	243	Apr. 27, 1936	519	6	-	216	525	19	20	14
528	Will Davis	26	June 1, 1936	92	11	6	14	6	8	50	54
529	T.W. Swiley	Spring	May 23, 1936	39	-	1	13	12	8	11	6
530	Porter Horton	18	June 1, 1936	57	-	-	-	37	8	10	-
531	Atlantic Pipeline Co.	365	Apr. 24, 1936	680	-	-	292	732	8	20	1
532	T.M. Sprinks	22	June 26, 1936	37	-	-	-	12	a/	17	-
533	Frank Adams #1	800	May 23, 1936	370	-	1	144	256	81	18	6
533	Frank Adams	950	b/ 1931	-	-	-	-	-	100	18	10
534	Boney Terrell	25	May 23, 1936	27	-	-	-	12	a/	11	-
535	B. A. Skipper	2,100	c/ 1931	-	-	-	-	-	90	52	10

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by party unknown.

c/ Partial analysis by G. H. Thompson

Partial analyses of water from wells in Gregg County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
536	B.A. Skipper	1,705	Apr. 27, 1936	465	5	-	180	311	81	46	13
536	T.F. Mitchell	2,000	b/ 1931	-	-	-	-	-	70	46	10
538b	Dr. J. Falvey	24	b/ 1931	-	-	-	-	-	5	8	45
537	J.H. Culver	800	June 24, 1936	1,525	6	1	600	305	8	760	21
538	J.H. McManey Est.	23	do.	114	-	-	-	92	a/	25	-
539	do. Spring	do.	do.	19	-	-	-	6	a/	9	-
540	Dr. J.W. Falvey	do.	June 26, 1936	-	-	-	-	12	8	8	-
541	J.P.A. test well	18	do.	66	-	-	26	-	a/	40	-
542	Joseph Taylor	19	Mar. 21, 1936	347	-	-	-	384	8	13	-
543	Georgia Ann Cotton	do.	June 26, 1936	24	-	-	-	12	a/	9	-
544	do. Spring	do.	June 24, 1936	18	-	1	5	6	a/	9	6
545	W. Cunyus	15	June 29, 1936	221	-	-	-	31	22	42	-
546	J.P.A. test well	21	do.	1,610	120	34	323	6	914	132	440
548	John Henry Davis	21	June 26, 1936	49	-	-	-	12	a/	25	-
549	J.P. Cunyus	24	May 23, 1936	93	-	-	-	12	12	42	-
550	T.B. Stinchcomb	23	June 26, 1936	179	12	6	43	-	a/	118	54
552	Raymond Jones	Spring	do.	17	-	-	-	6	a/	8	-
554	Mrs. K.M. Pitner	23	Apr. 16, 1936	45	-	-	17	6	8	17	-
555	J.P.A. test well	30	Apr. 22, 1936	53	-	-	-	24	8	14	-
556	do.	25	do.	96	5	5	24	49	21	17	33
557	F.M. Spear	28	June 1, 1936	107	-	-	-	43	31	18	-
558	Arkansas Fuel Oil Co	359	Apr. 14, 1936	654	7	6	256	689	29	17	42
559	Sinclair Prairie Oil Company	381	Apr. 23, 1936	609	4	1	251	610	31	22	16
560	Wheelock & Collins	452	do.	590	4	-	246	603	29	14	9
561	K.M. Pitner	Spring	Apr. 16, 1936	62	-	-	-	24	12	16	-
561	Pitner and Birdsong	do.	b/ 1931	-	-	-	-	-	5	8	30
562	J.P.A. test well	9	June 1, 1936	1,594	76	116	133	-	624	215	664
563	R.H. Still	50	do.	272	-	-	-	-	171	19	-

a/ Sulphate less than 10 parts per million.

b/ Partial analysis by S. F. Turner and Penn Livingston

partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
564	C.L. Still	20	June 1, 1936	224	31	29	3	6	65	93	198
566	Southport Petr. Co. #1	336	Apr. 17, 1936	675	-	1	286	702	25	18	6
567	Southport Petr. Co. #2	337	do.	581	-	-	-	610	35	20	-
568	Southport Petr. Co. #3	337	do.	516	1	4	206	463	58	19	18
569	Ocean Petroleum & Refining Co.	575	Apr. 17, 1936	614	4	11	240	640	25	19	57
571	J.F. Birdsong	26	Apr. 22, 1936	40	-	-	-	6	11	12	-
572	G.P. Thomas	29	May 23, 1936	43	-	-	-	12	a/	21	-
573	E.X. Birdsong	16	May 21, 1936	158	-	-	-	6	90	17	-
574	M.T. Flanagan	Spring	May 22, 1936	19	-	-	-	6	a/	9	-
575	J.F. Graybill	16	May 23, 1936	22	-	-	-	12	a/	8	-
576	G.E. Cunyus	23	do.	122	-	-	-	12	27	70	-
577	Pleasant Green Church	23	do.	917	114	111	40	469	403	18	744
578	S. Wade	24	May 25, 1936	134	4	6	40	12	a/	78	34
580	G.E. Cunyus	15	do.	67	-	-	-	18	8	26	-
581	Dave Holland	23	May 21, 1936	29	-	-	-	12	a/	12	-
582	Mrs. Froney Hutchins	26	May 25, 1936	30	-	-	-	12	a/	13	-
583	Fannie Duan	13	do.	23	-	-	9	12	a/	8	-
584	Silas Mitchell	25	do.	40	-	-	-	12	a/	19	-
585	J. Mc Whorter	22	do.	37	-	-	-	18	a/	14	-
586	- Whittington	Spring	do.	468	41	22	73	-	257	75	194
601	E.A. Latham	18	June 30, 1936	342	-	-	-	6	200	28	-
603	W.P.A. test well	19	June 8, 1936	277	-	-	-	30	148	27	-
607	United Gas Pub. Serv. Co.	-	June 24, 1936	1,111	7	6	439	665	42	290	44
608	Carrie Pitman	28	do.	91	-	2	33	24	a/	44	10
609	F.T. Rea	18	do.	75	-	-	-	12	23	21	-
610	W.P.A. test well	17	-	189	-	-	-	18	50	66	-
611	Alonzo Henry	18	June 24, 1936	341	-	-	-	85	165	24	-
612	Joe Haynes	23	do.	49	3	6	7	18	a/	24	34
613	W.P.A. test well	7	June 25, 1936	62	-	-	-	18	19	13	-
614	do.	8	May 23, 1936	63	-	-	-	18	a/	31	-
616	do.	26	do.	5,105	350	417	610	12	3,226	392	2,597
617	L.A. Ballinger	16	May 22, 1936	41	-	-	-	12	a/	20	-
618	W.P.A. test well	13	June 25, 1936	309	12	17	62	-	177	41	101

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Gregg County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
619	W.G. Mitchell	19	May 23, 1936	91	-	-	-	61	8	19	-
620	Frank Ray	19	June 25, 1936	64	-	-	-	12	27	10	-
621	J.E. Jones	18.5	do.	101	5	26	19	6	a/	74	68
622	N.D. Williams	-	do.	735	-	1	291	512	156	35	5
623	W.P.A. test well	12	do.	81	-	-	-	12	27	21	-
624	Jim Jones	19	do.	32	-	-	-	18	a/	11	-
625	Jeff Sanders	29	May 22, 1936	31	-	4	6	12	a/	15	17
626	Charlie Jones	19	June 25, 1936	64	1	4	17	12	19	17	17
627	W.P.A. test well	10	do.	-	-	-	-	6	12	16	-
629	Zed Garrison	15	May 22, 1936	52	5	5	8	12	a/	28	33
630	Louis C. Burton	25	May 26, 1936	322	17	20	59	6	169	54	128
631	J.G. Acker	18	May 22, 1936	154	-	-	-	-	38	64	-
632	C.M. Gordon	21	do.	17	-	-	-	6	a/	8	-
* 635	H. G. Lucas	24	do.	39	6	2	6	-	a/	24	21
636	T.E. Stinchcomb	-	do.	25	-	-	-	6	-	13	-
637	Elizabeth Flanagan	27	do.	62	-	3	20	18	-	30	13
638	County Road	Spring	do.	20	-	1	6	12	-	7	6
639	W.P.A. test well	10	do.	90	-	-	28	12	33	13	1
a/ Sulphate less than 10 parts per million.											
* 634	Joe Nelson	19	May 22, 1936	37	-	-	-	12	a/	17	-